

FIG. 1

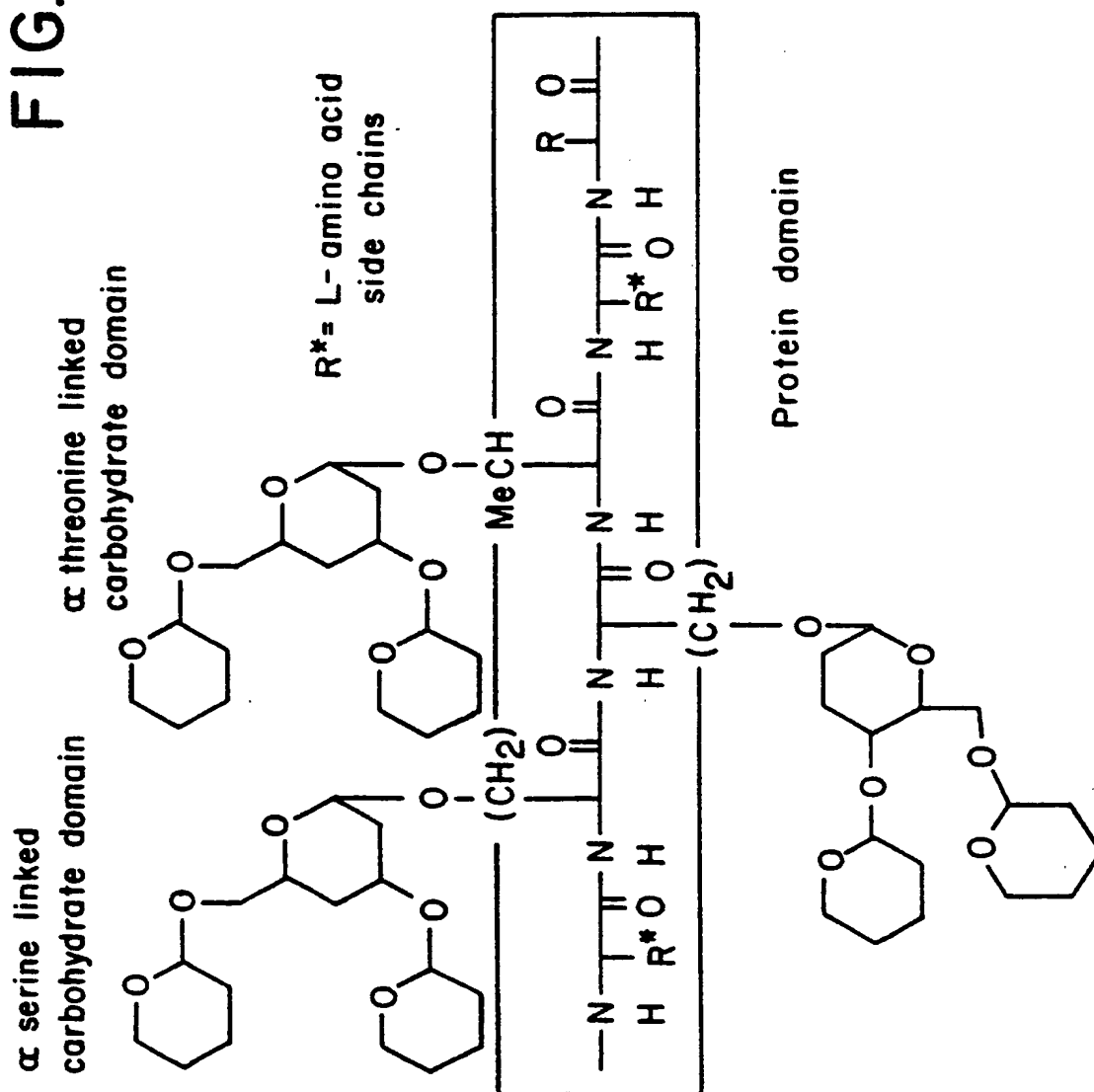


FIG. 2A

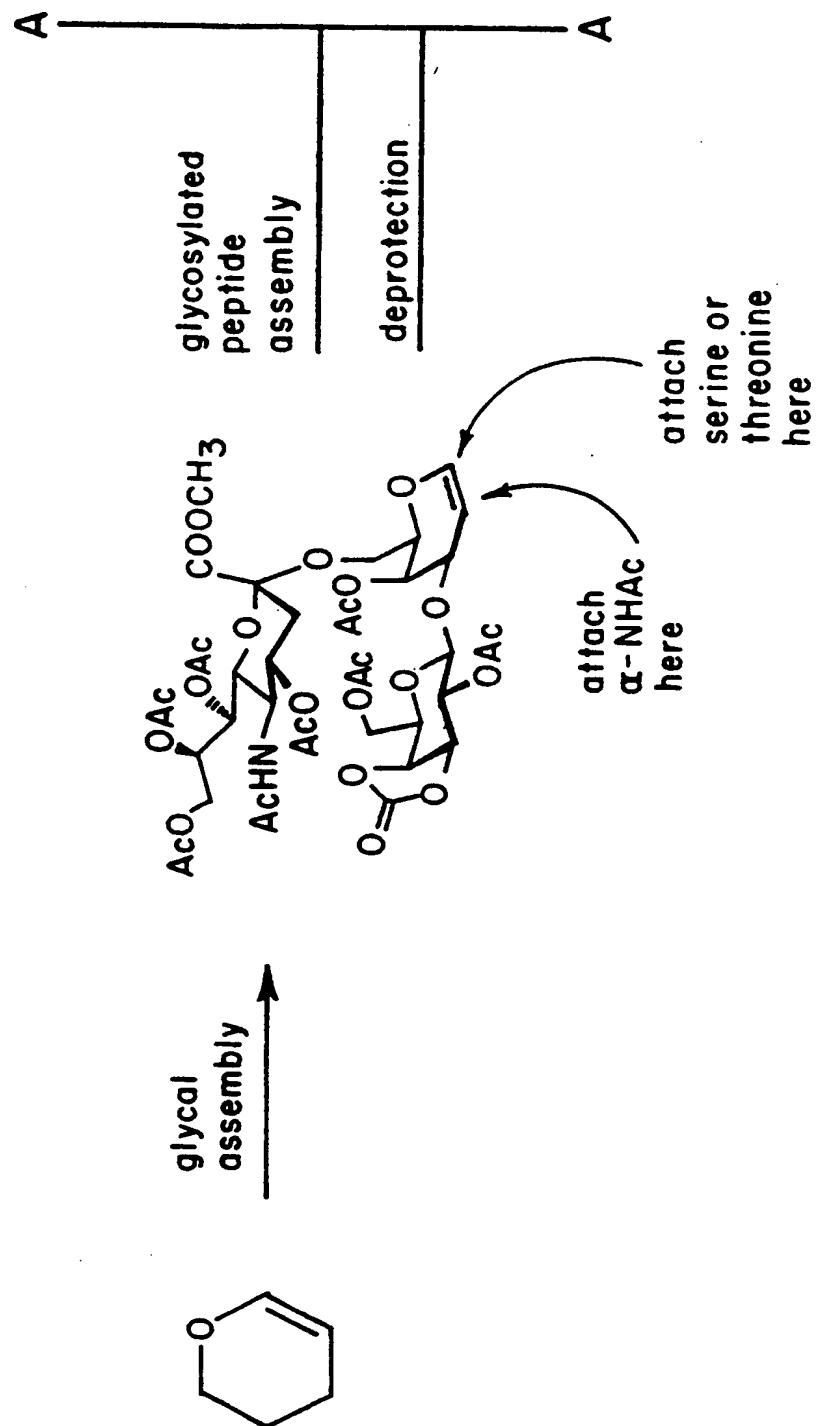
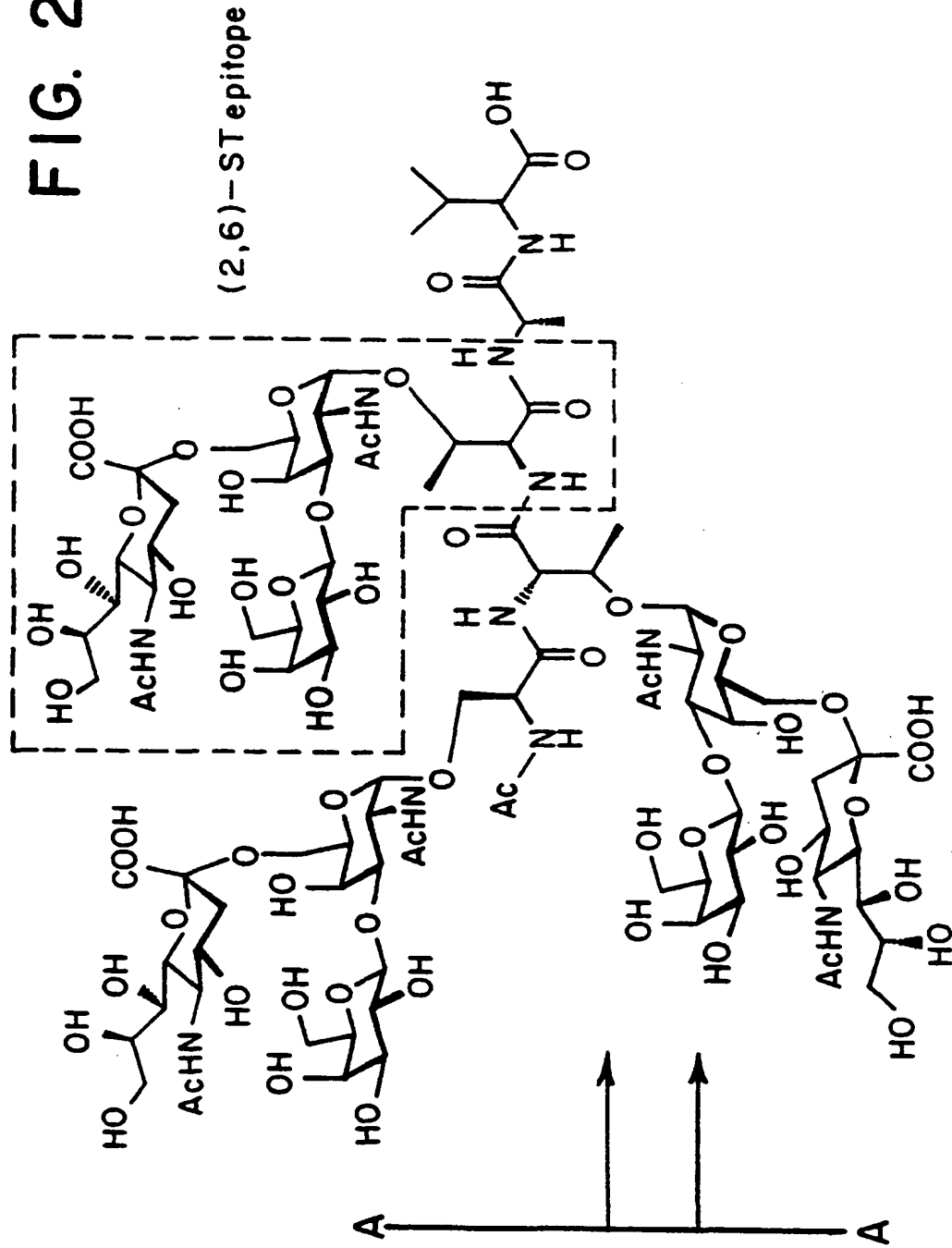


FIG. 2B



N-terminus of CD43 glycoprotein with clustered  
(2,6)–Sialyl T epitopes

FIG. 3

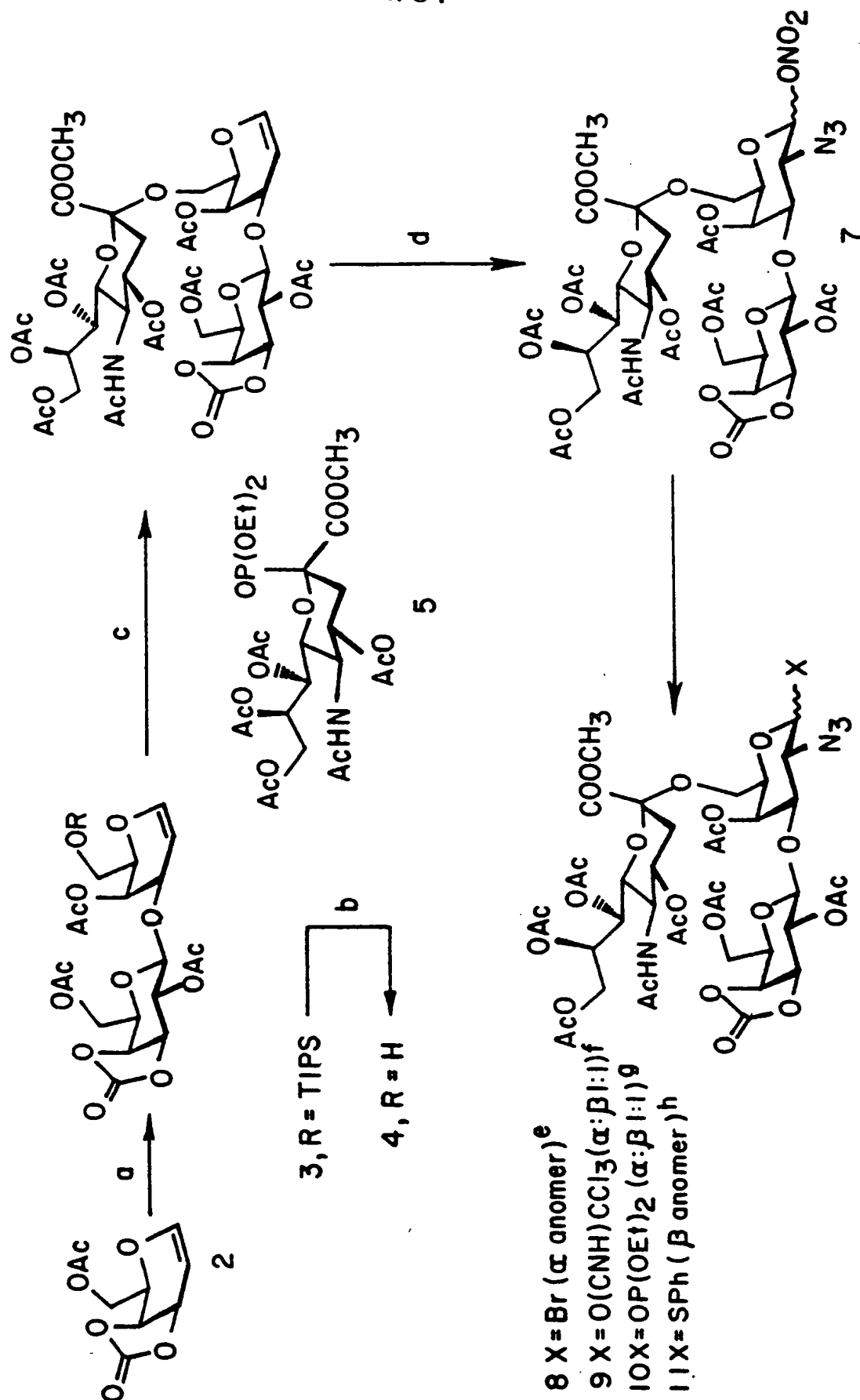
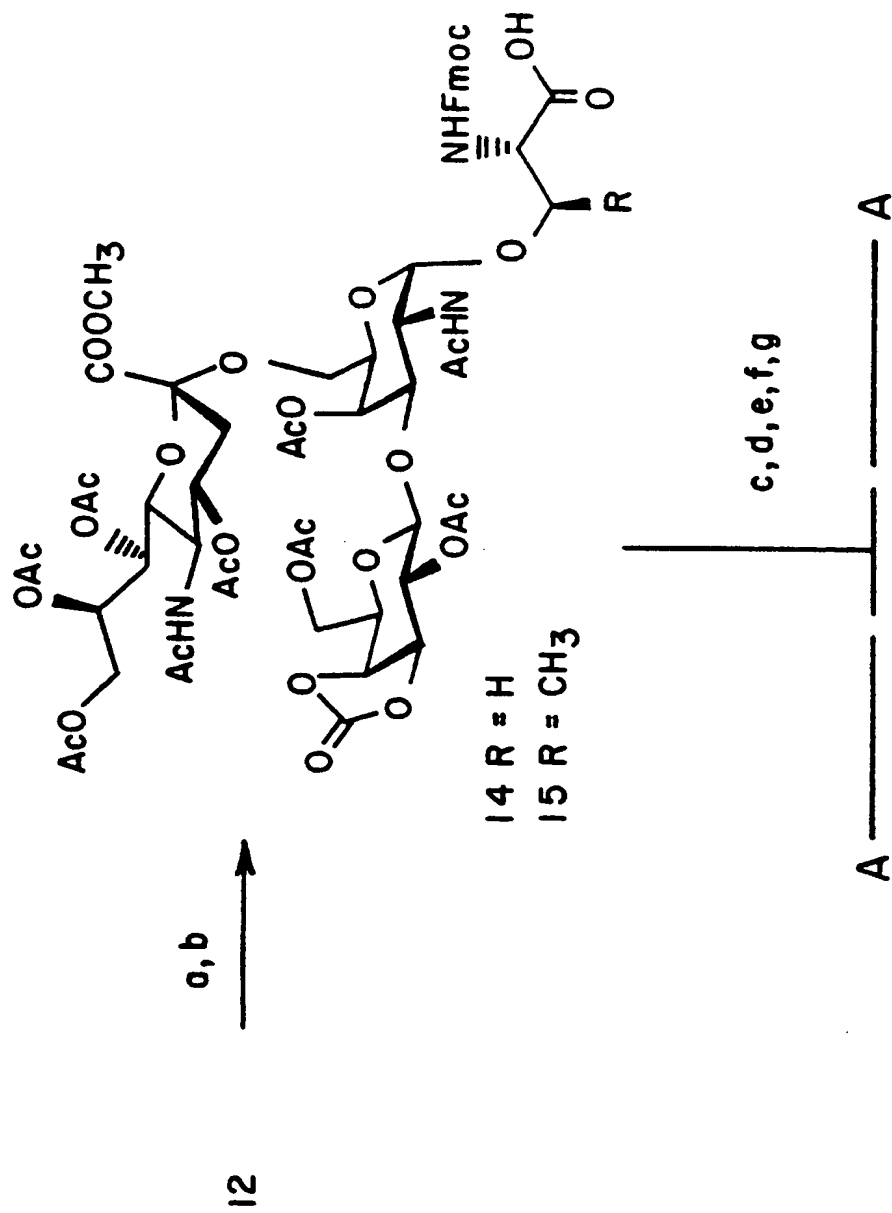


FIG. 4A



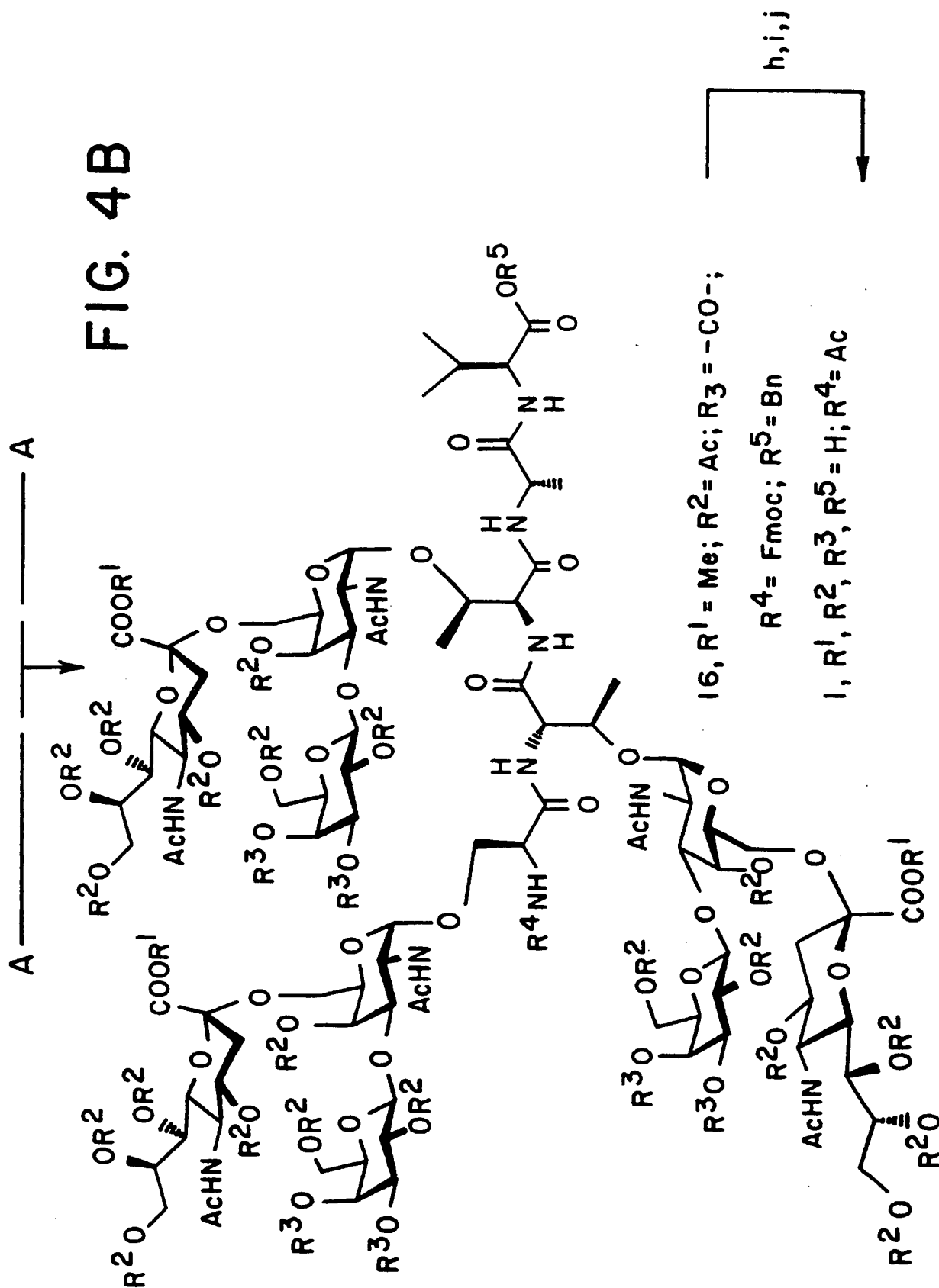
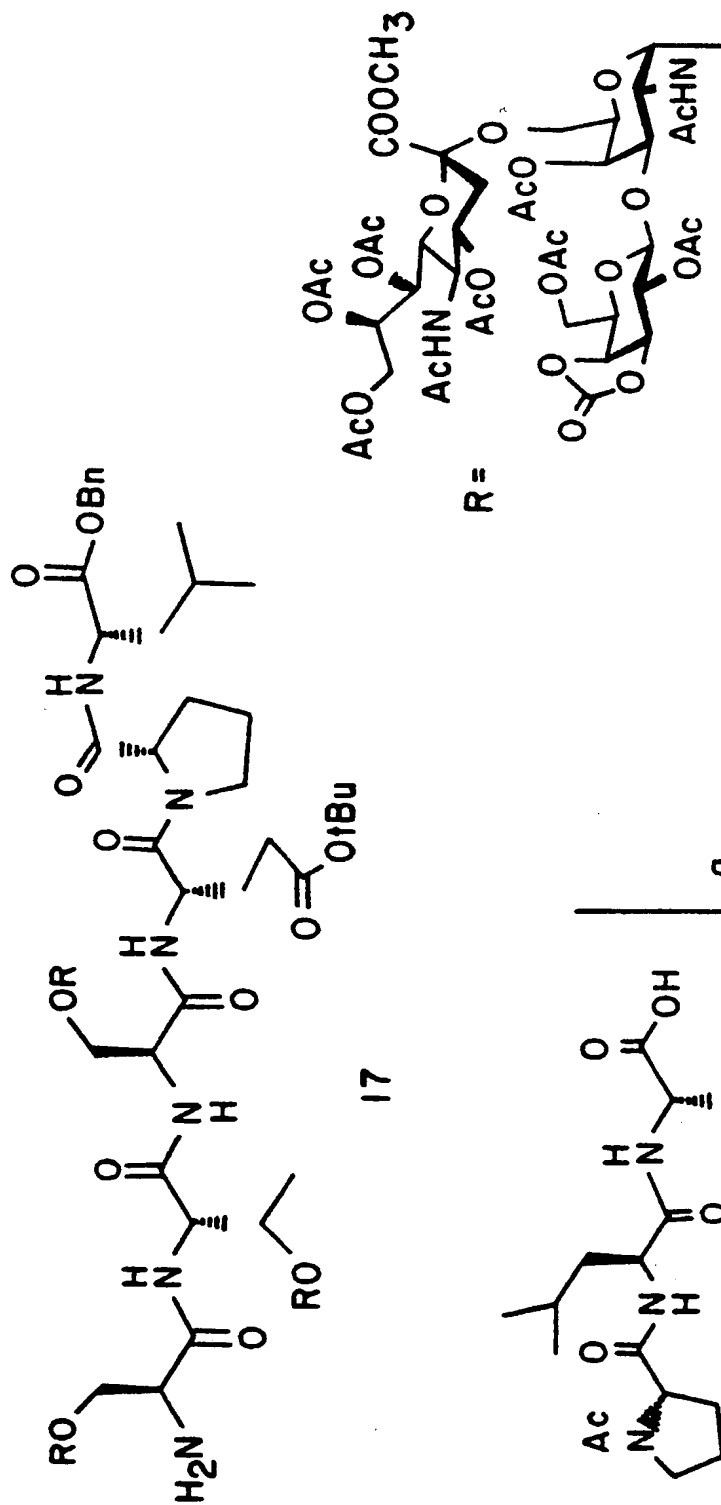
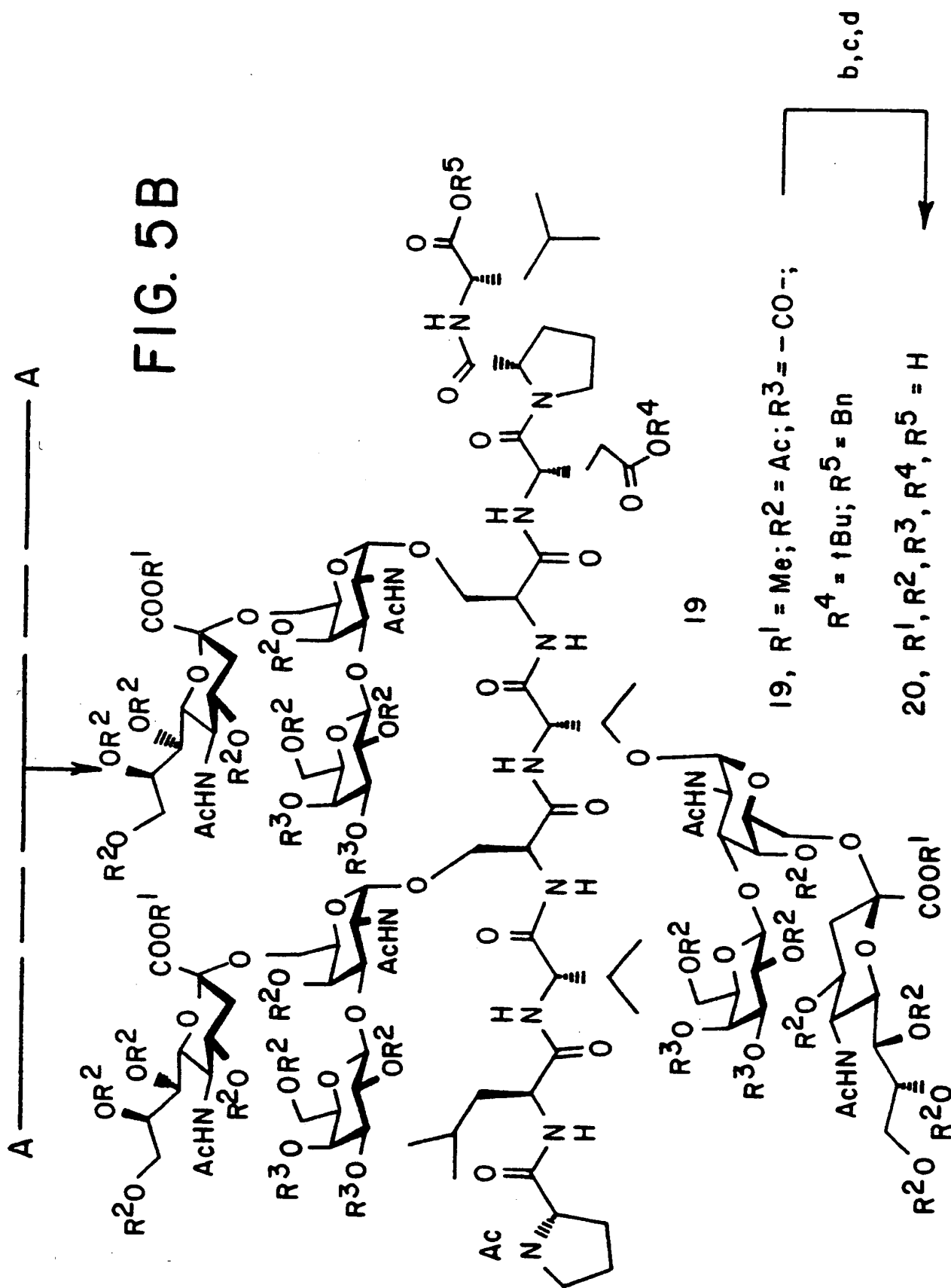


FIG. 5A



A ——— A





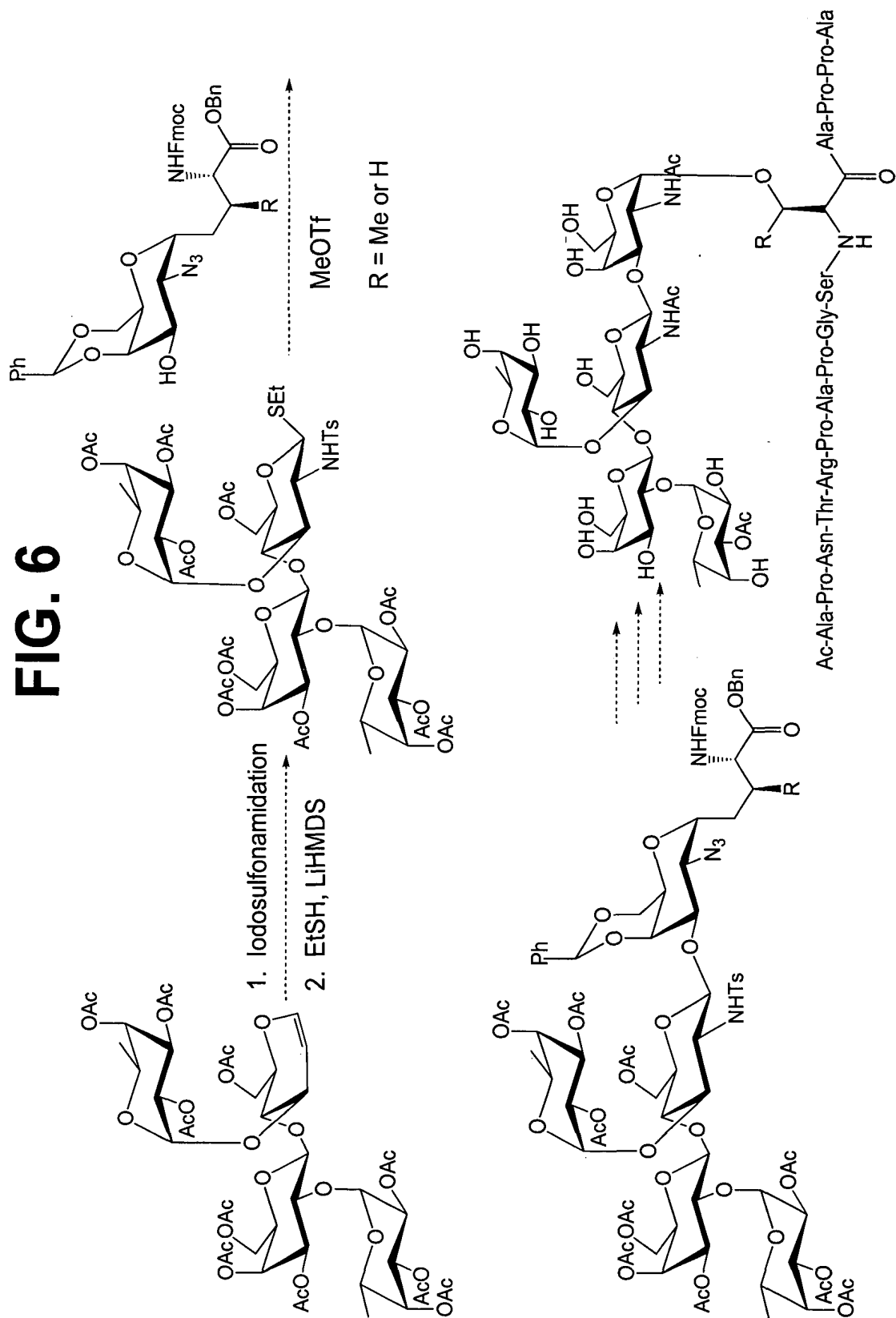
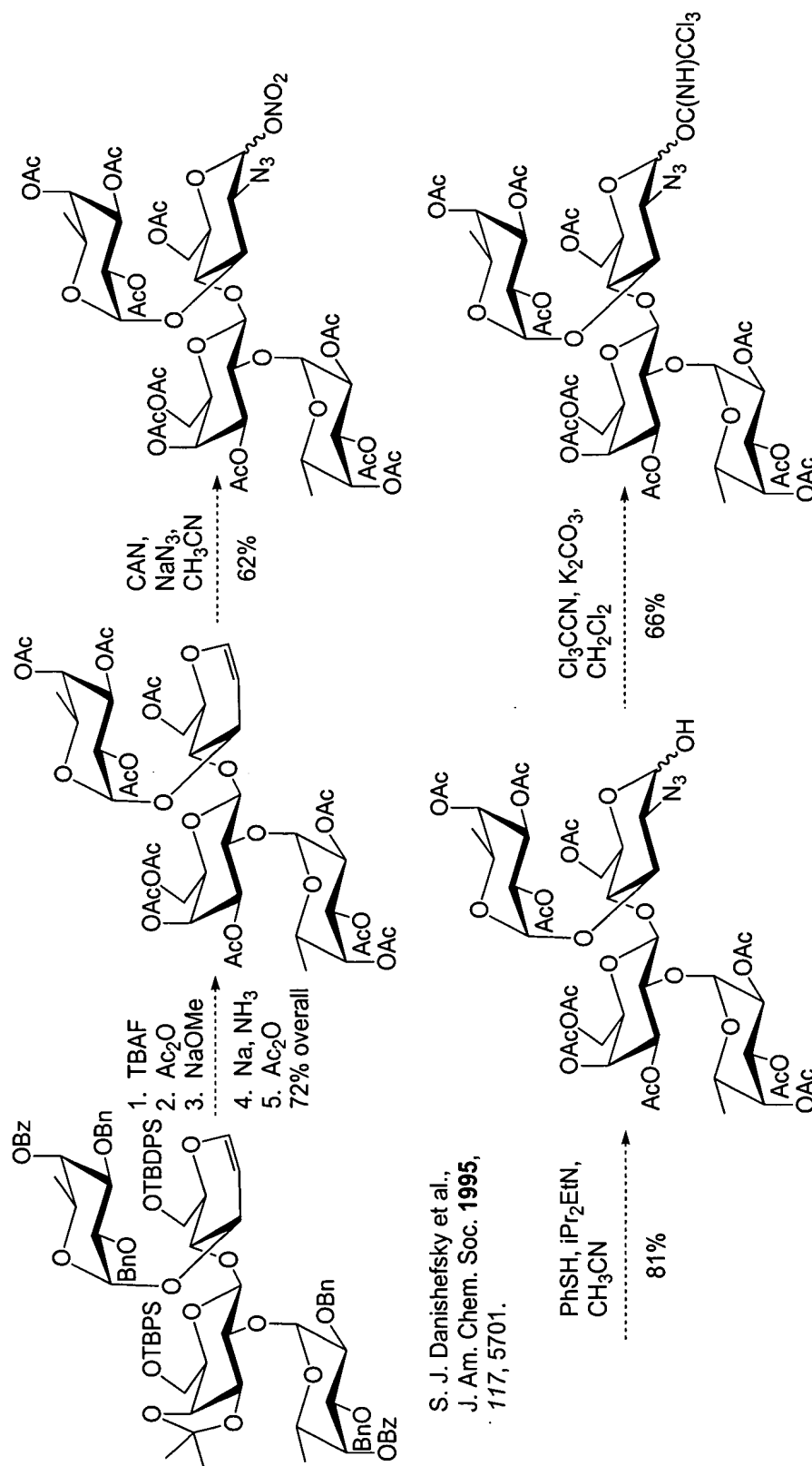
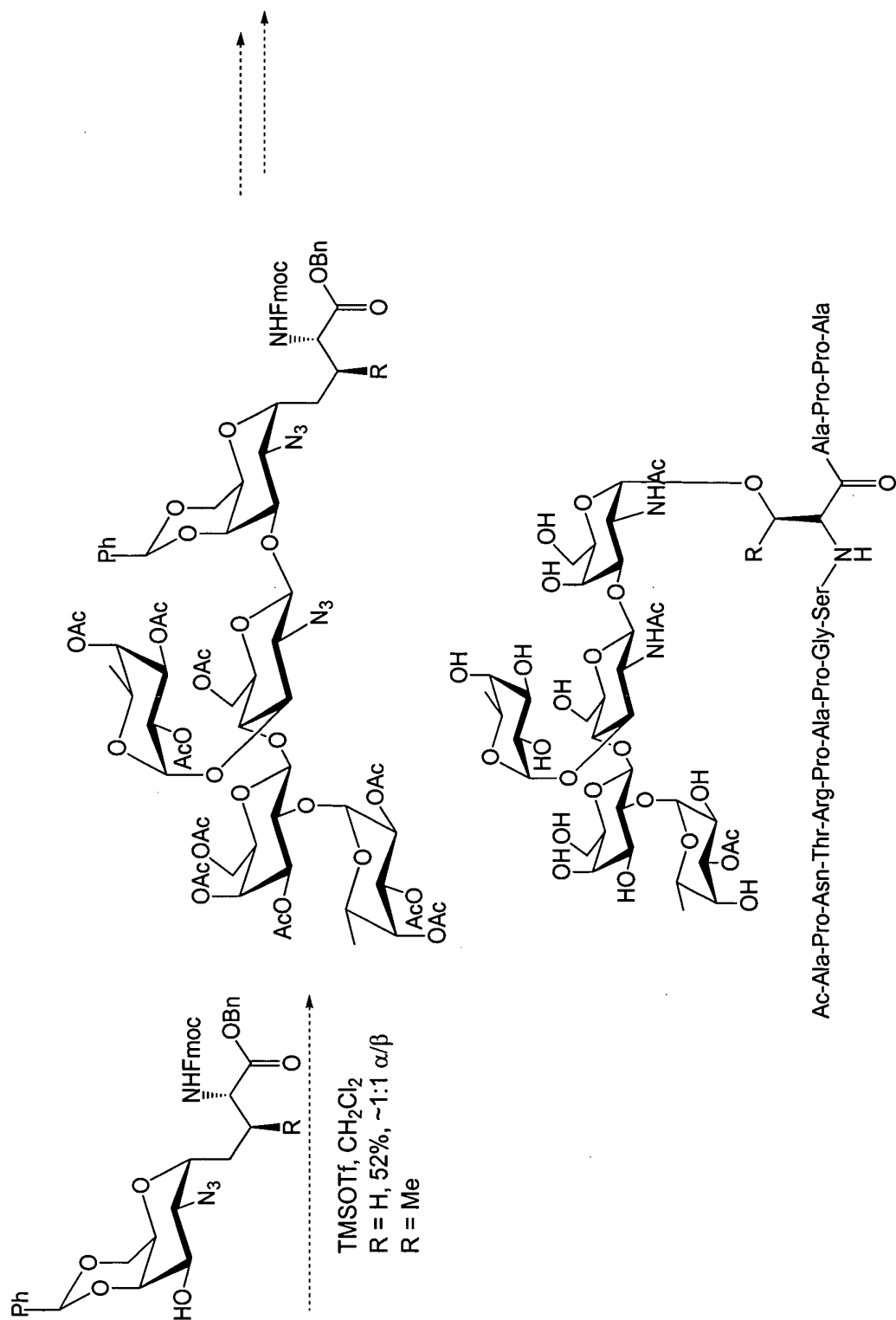
**FIG. 6**

FIG. 7A



S. J. Danishefsky et al.,  
J. Am. Chem. Soc. **1995**,  
117, 5701.

FIG. 7B



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FIG. 8A

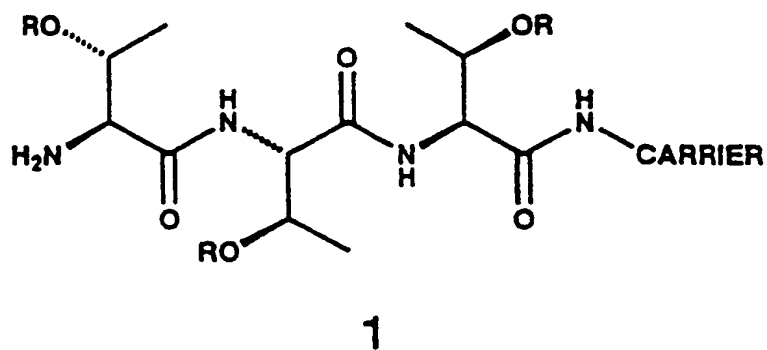


FIG. 8B

ST<sub>N</sub> 1a, R =

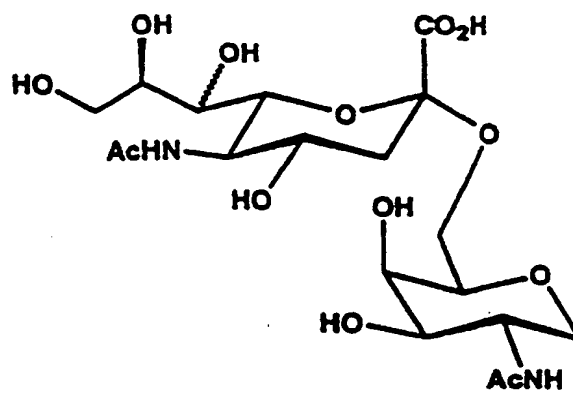
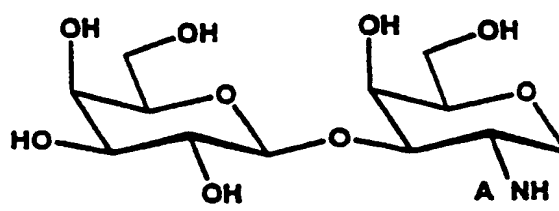


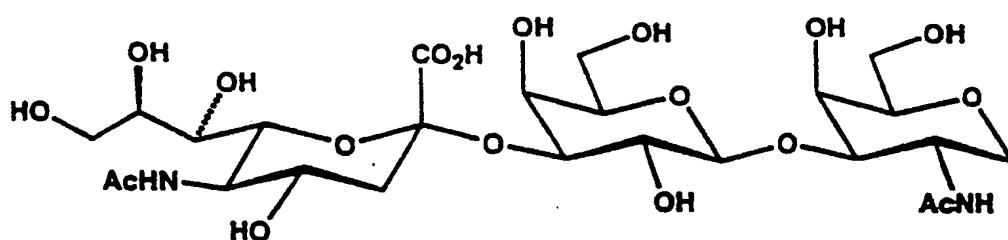
FIG. 8C

T(TF) 1b, R =



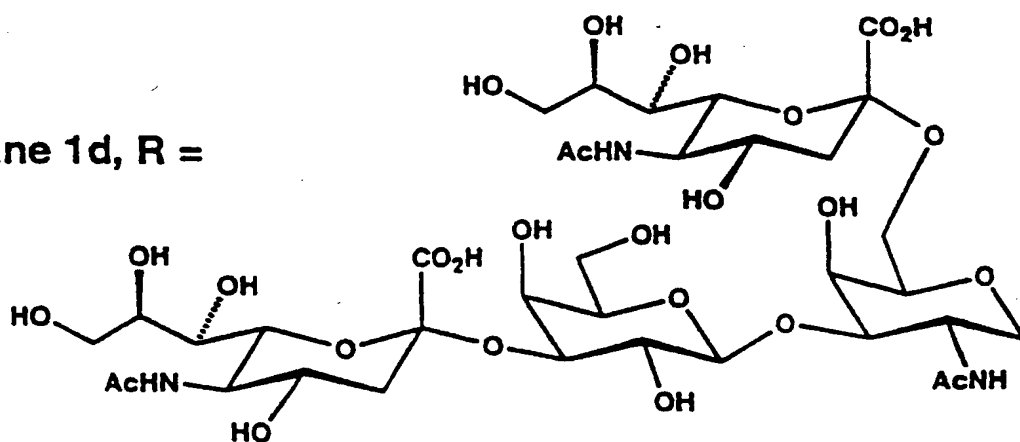
**FIG. 8D**

**(2,3)ST 1c, R =**



**FIG. 8E**

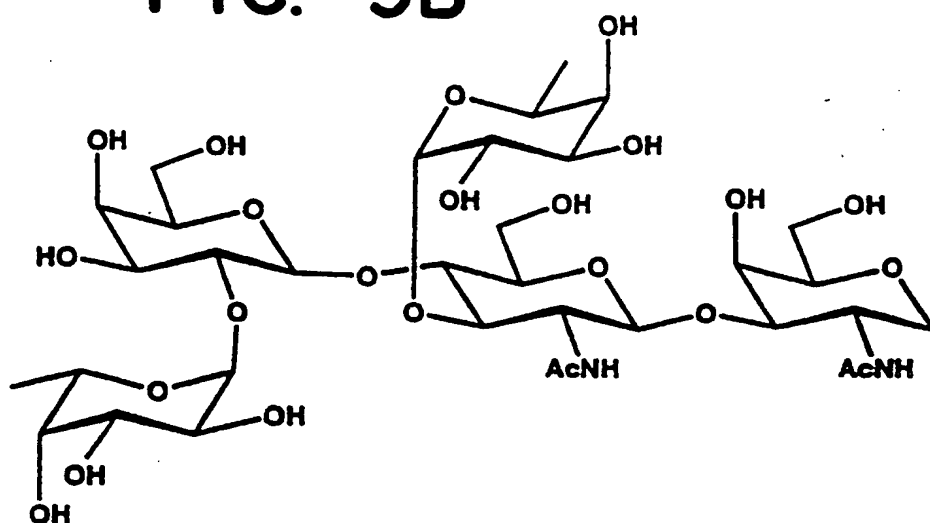
**Glycophorine 1d, R =**



**FIG. 9A**



**FIG. 9B**



**FIG. 9C**

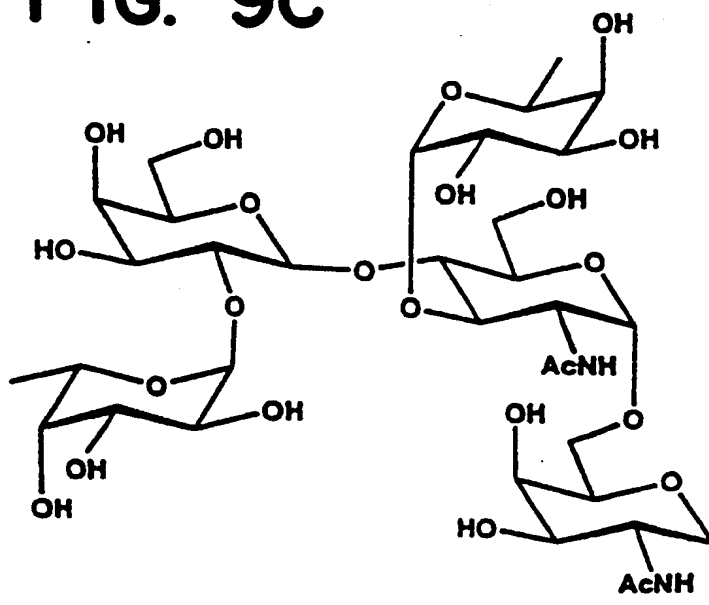


FIG. 10A

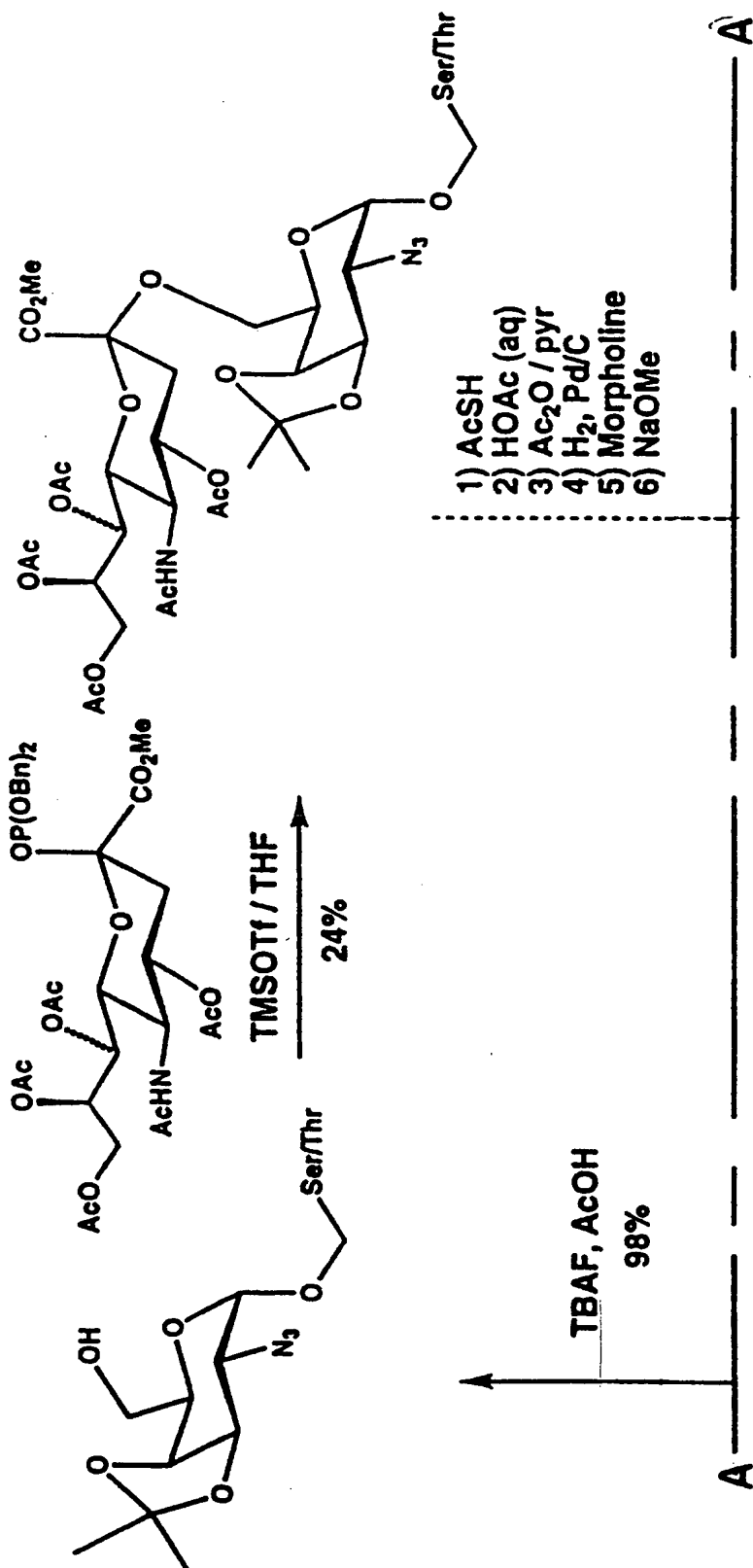
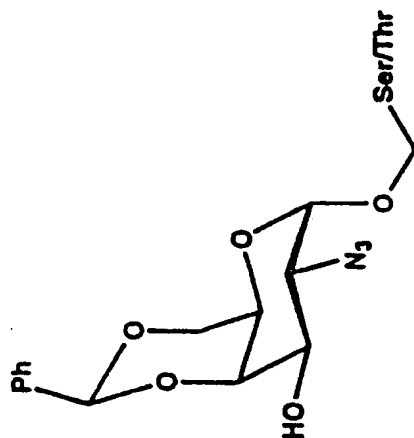


FIG. 10B

A

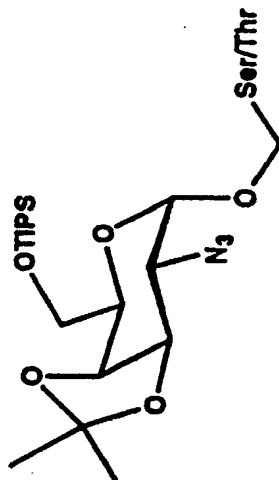
A

STN 1a

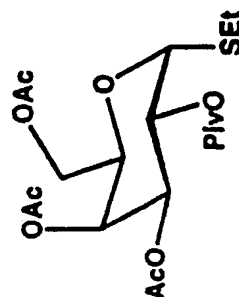


1) I<sub>2</sub>, MeOH  
2) PhCH(OMe)<sub>2</sub>

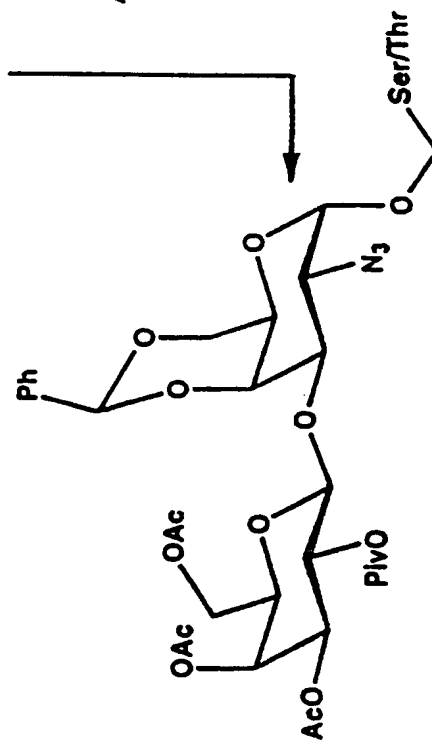
42% Thr  
69% Ser



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MeOTf  
25%



Global Deprotection

T(TF) 1b



FIG. IIA

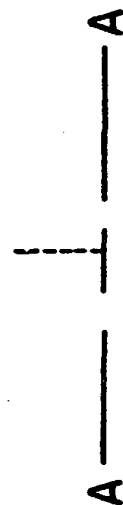
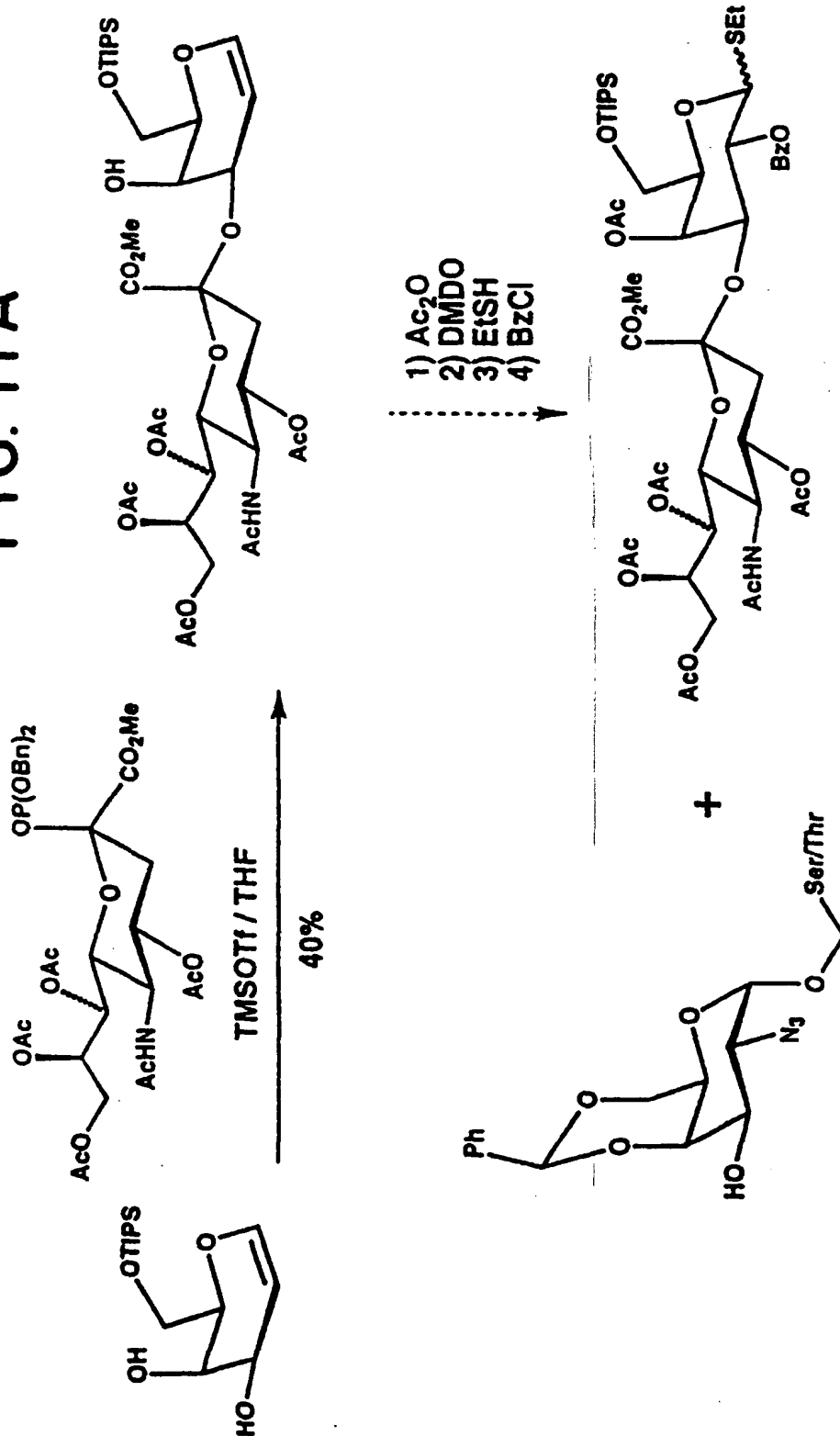
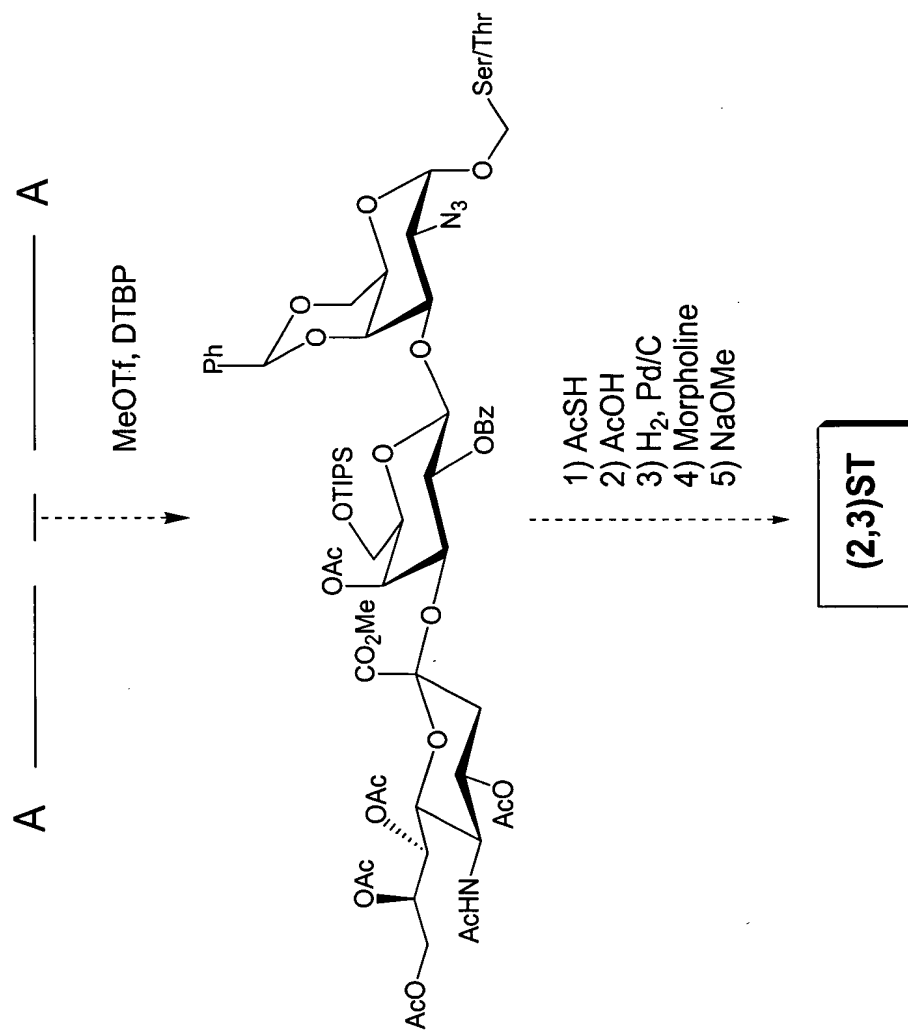
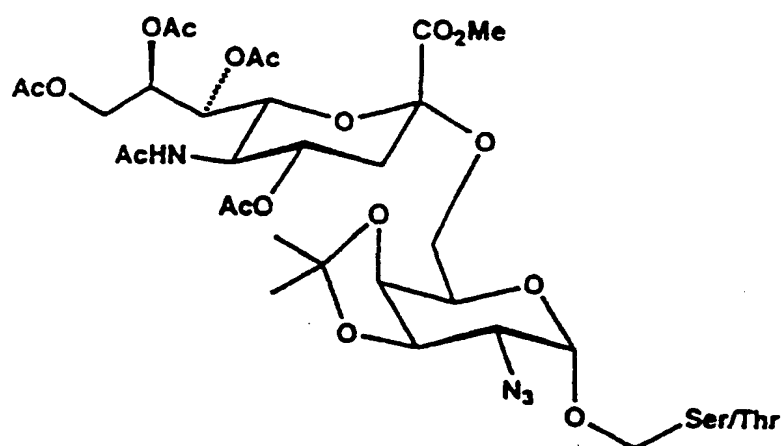


FIG. 11B



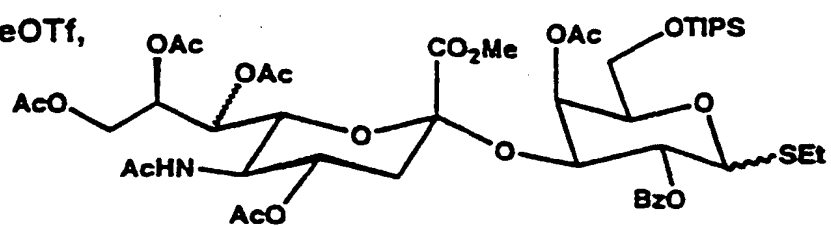
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# FIG. 12A



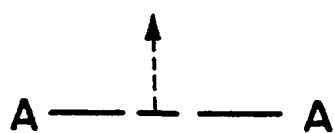
1) AcOH

2) MeOTf,



3) Global Deprotection

Glycophorine 1d



## FIG. 12 B

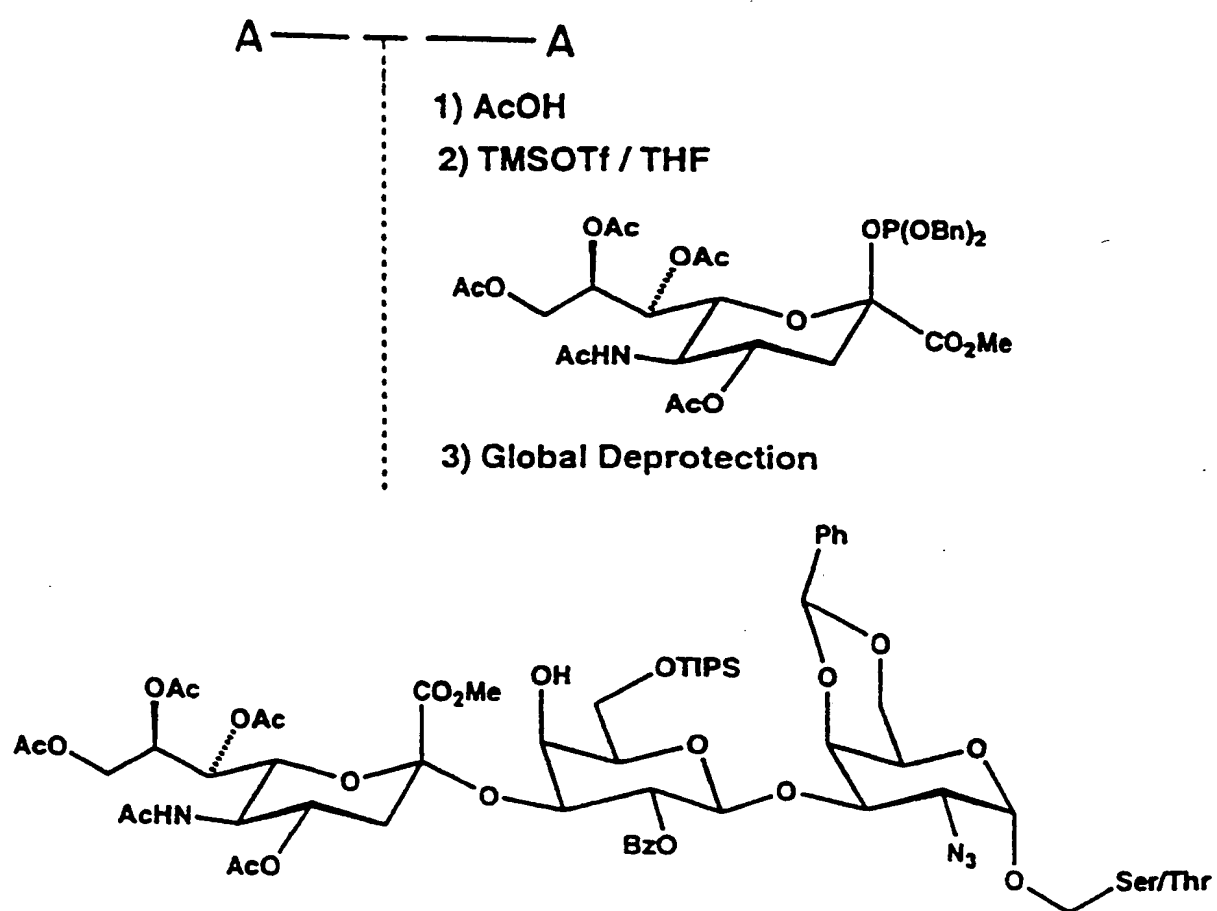


FIG. 13A

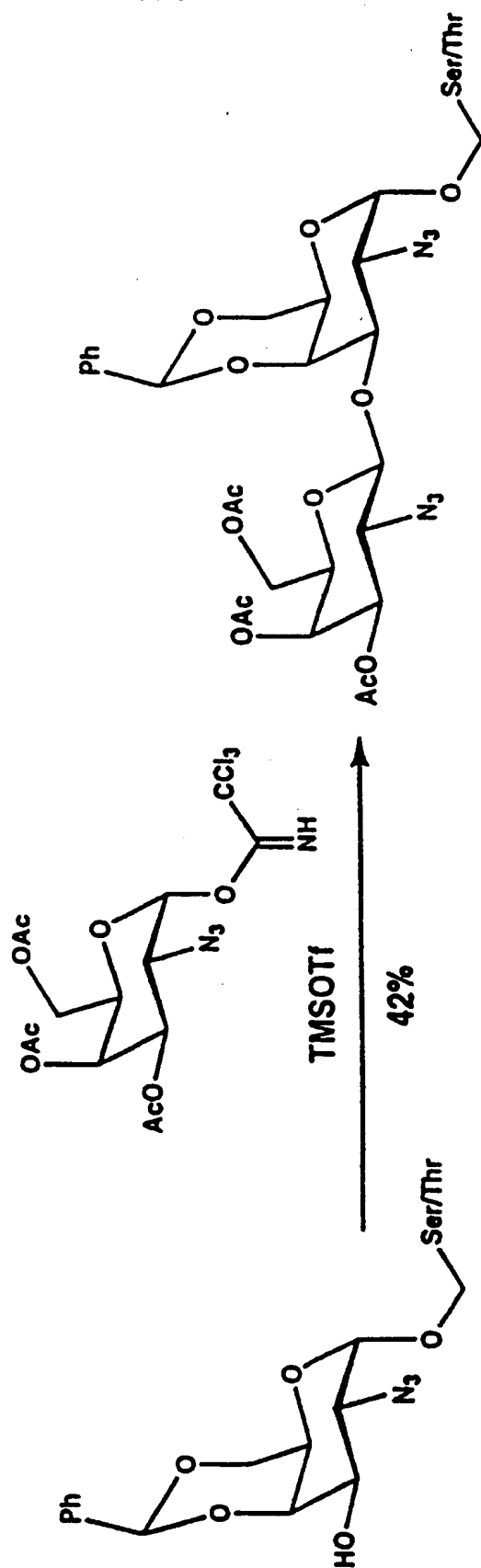


FIG. 13B

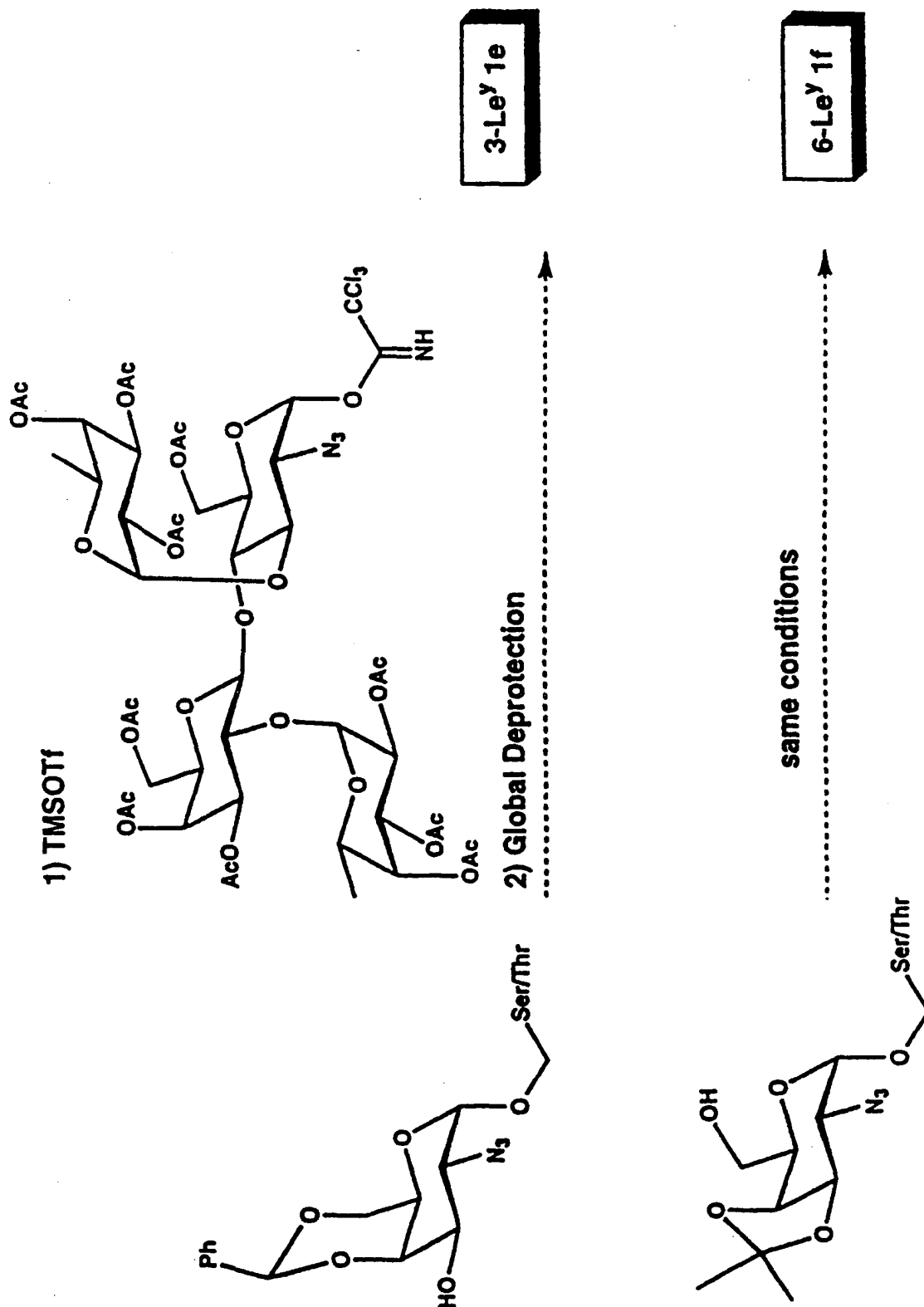


FIG. 14A

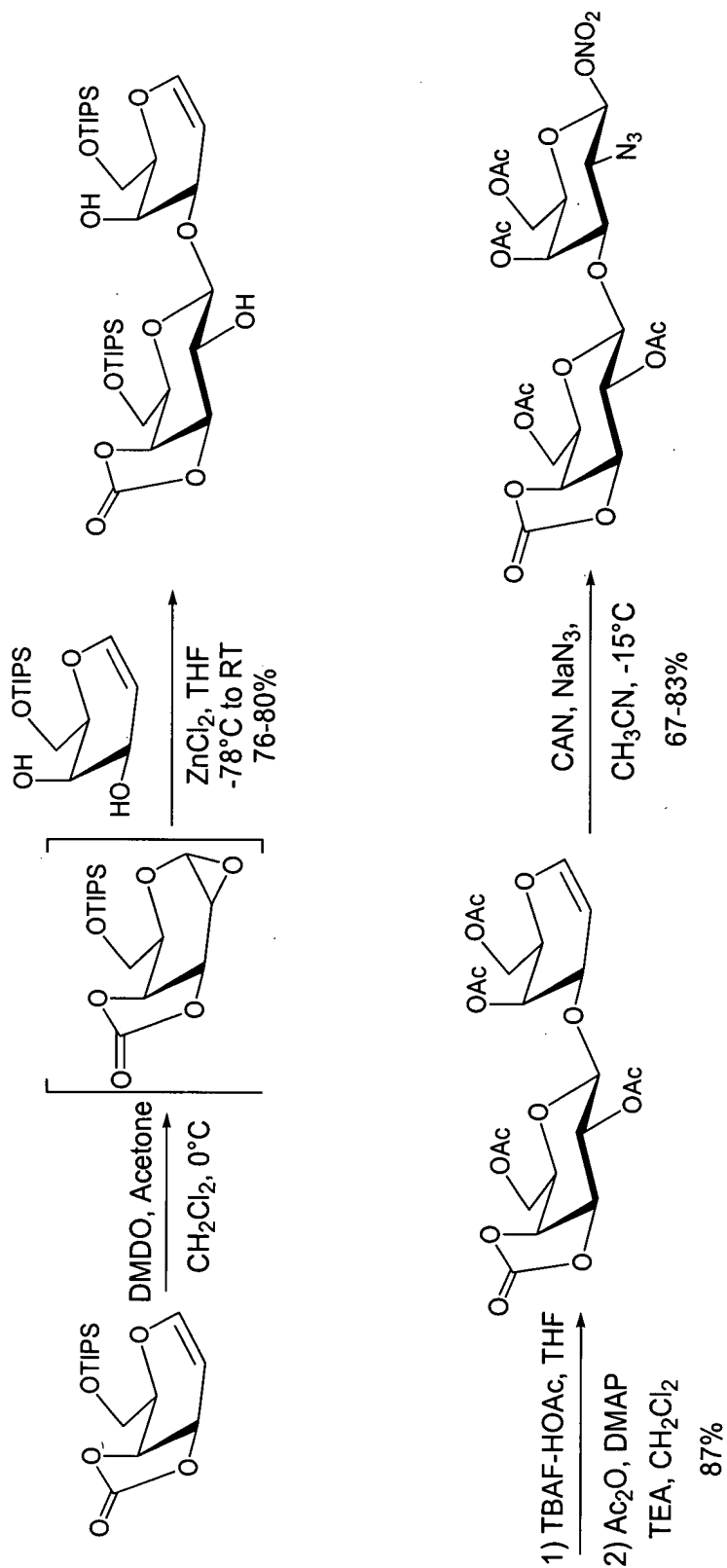


FIG. 14B

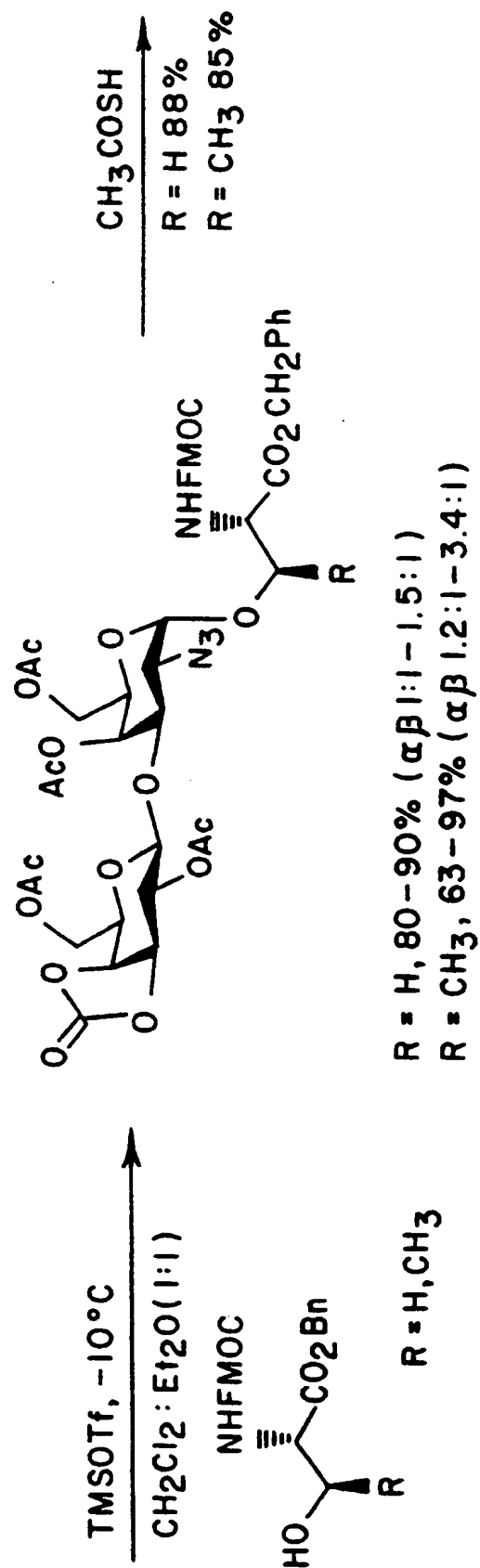
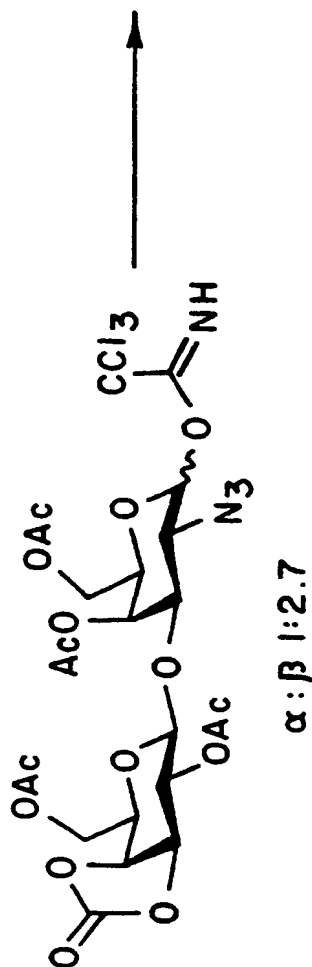
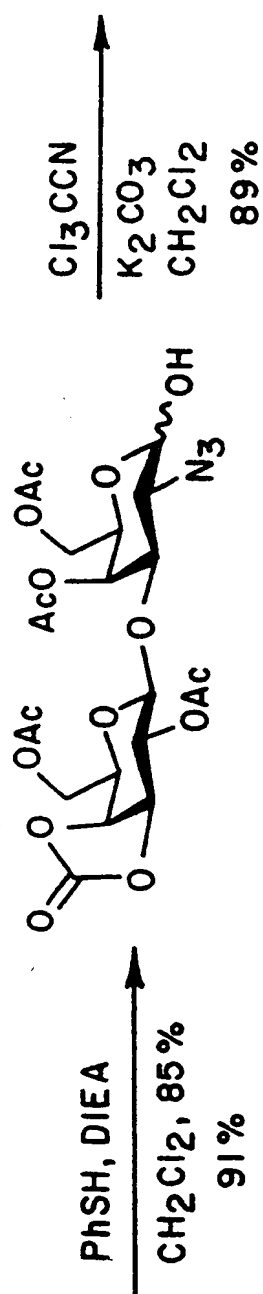




FIG. 14C

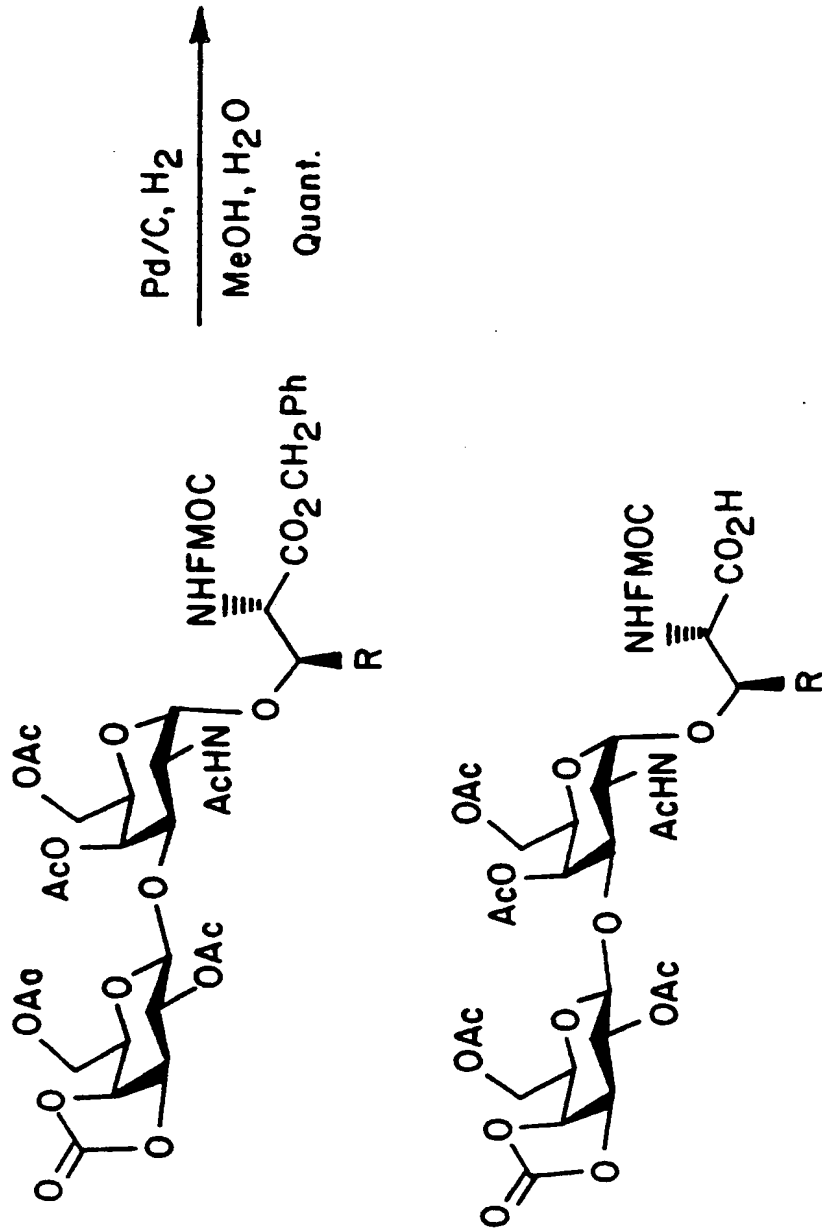


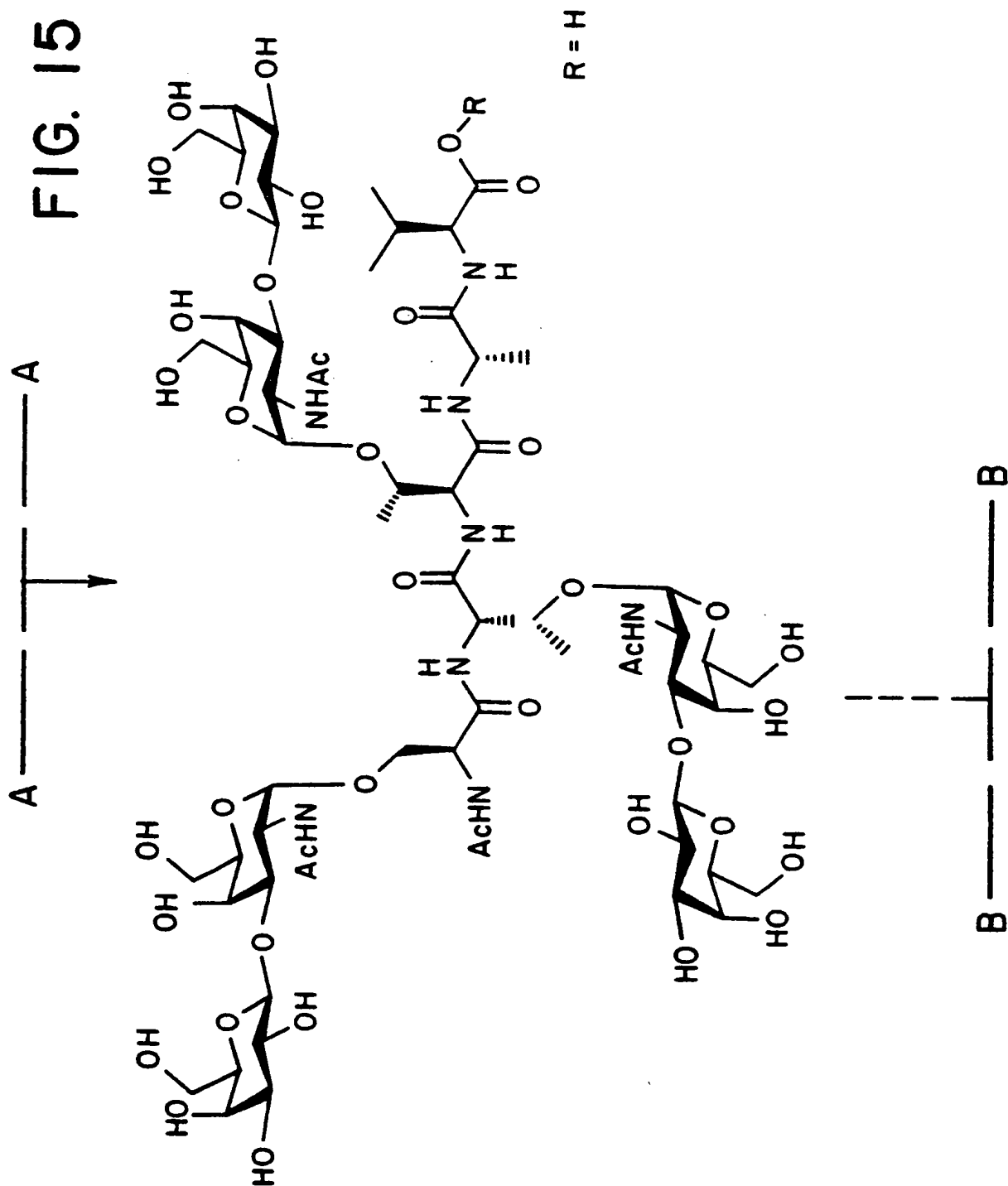
FIG. 15A



- 1) IIDQ,  $\text{CH}_2\text{Cl}_2$ , 70%
- 2) KF, 18C-G, DMF, 82%
- 3) II, IIDQ,  $\text{CH}_2\text{Cl}_2$ , 62%
- 4) KF, 18C-6, DMF, 61%
- 5) I, IIDQ,  $\text{CH}_2\text{Cl}_2$ , 81%
- 6) KF, 18C-6, DMF;  $\text{Ac}_2\text{O}$
- 7) Pd/C,  $\text{H}_2$ , MeOH- $\text{H}_2\text{O}$
- 8) NaOH, MeOH (70%)

A ————— A

FIG. 15B



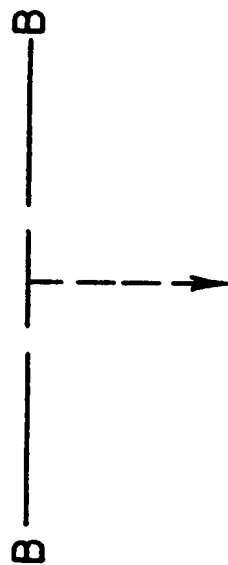
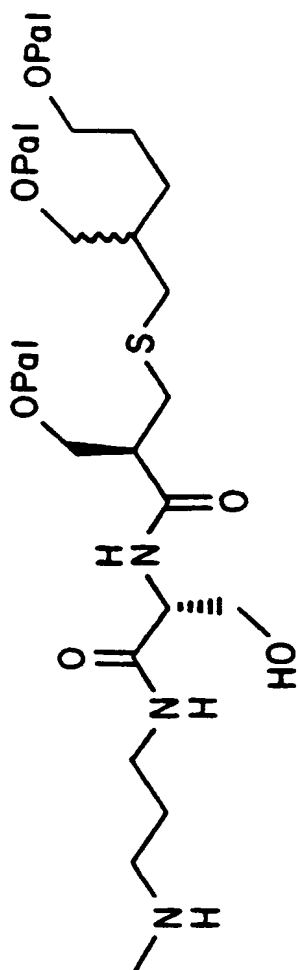
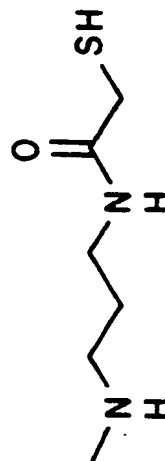


FIG. 15C

R =



$$\text{Pal} = \text{CH}_3(\text{CH}_2)_{14}\text{CO}$$


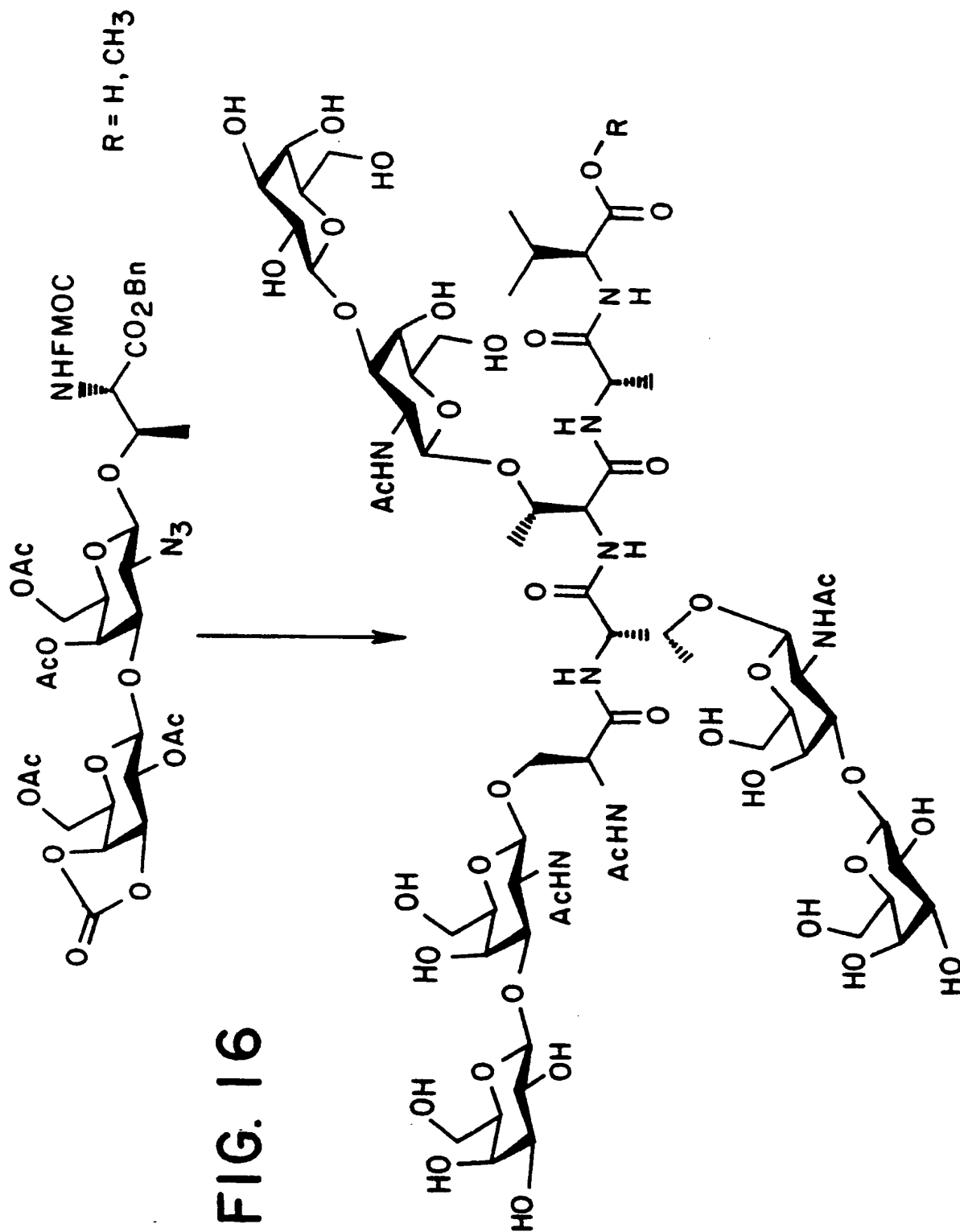


FIG. 17A

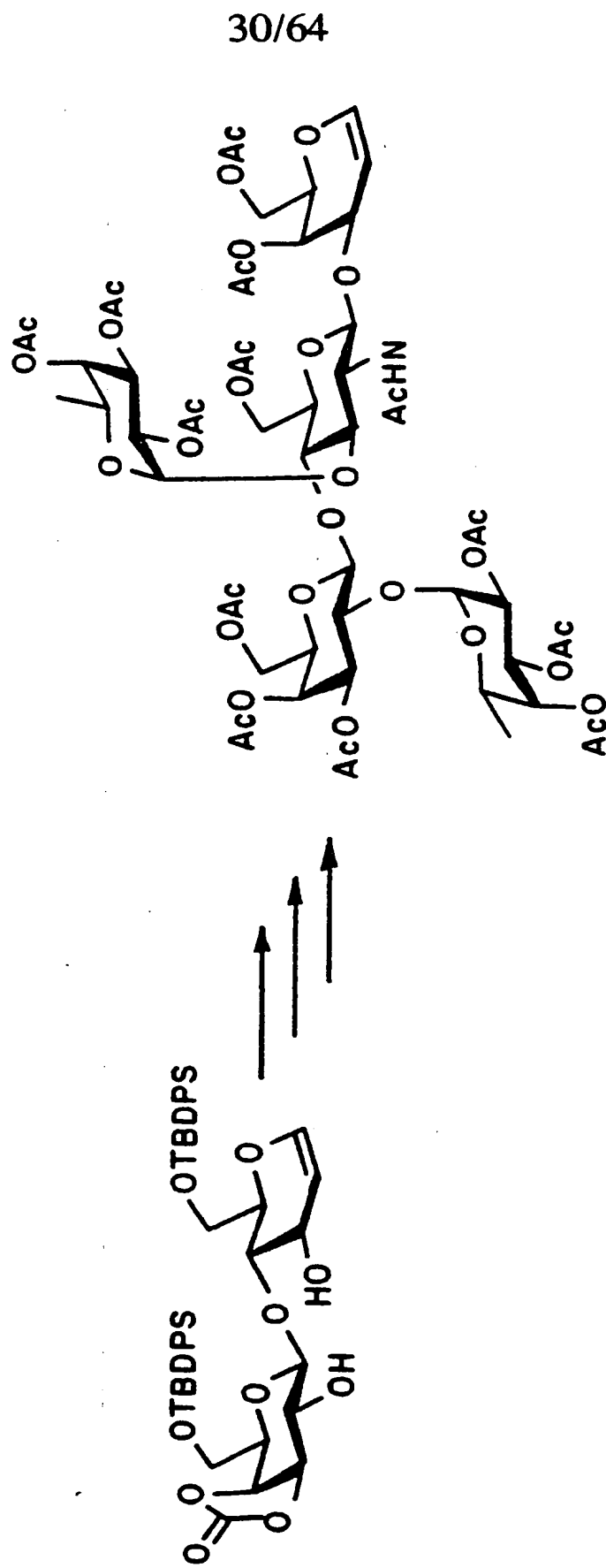


FIG. 17B

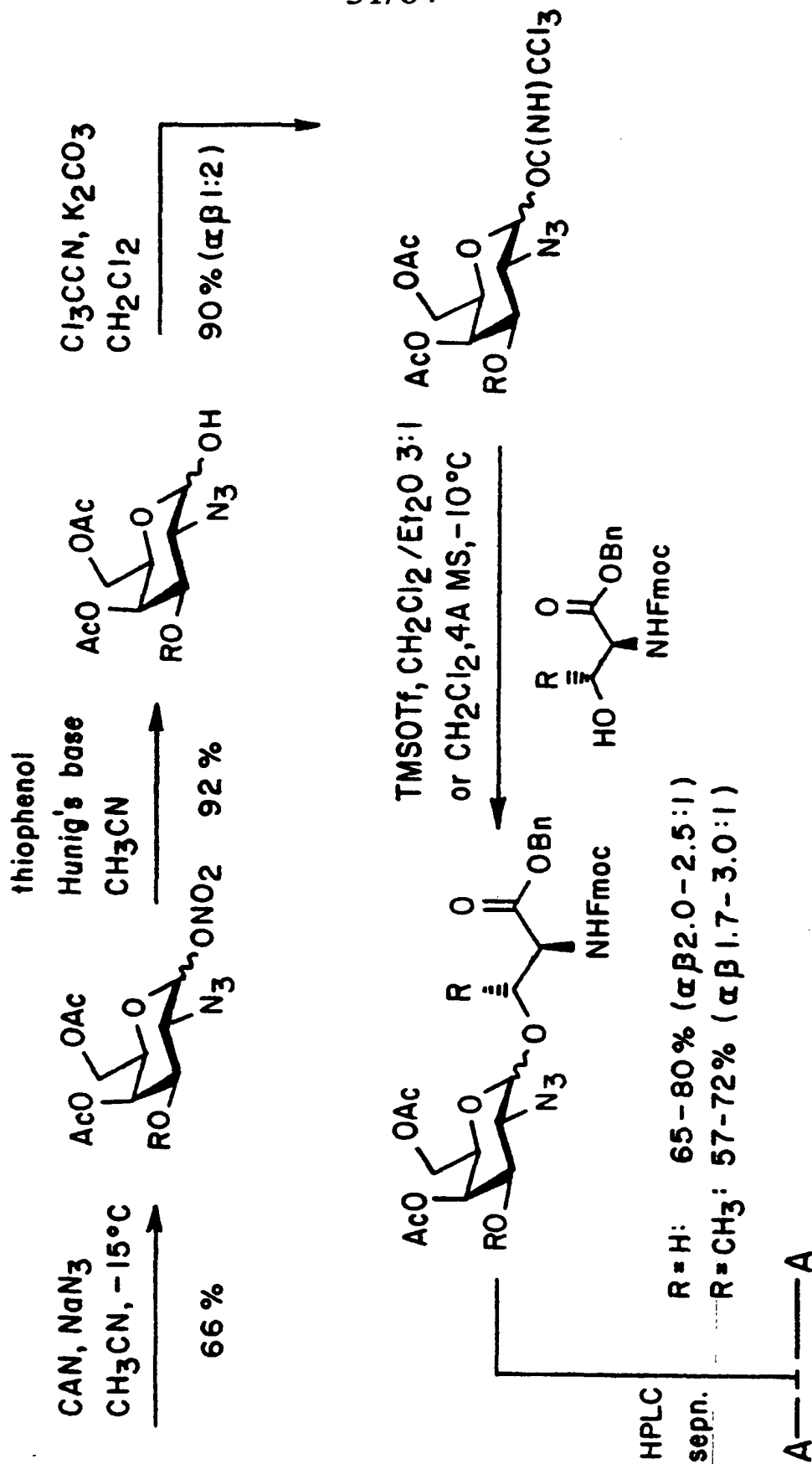
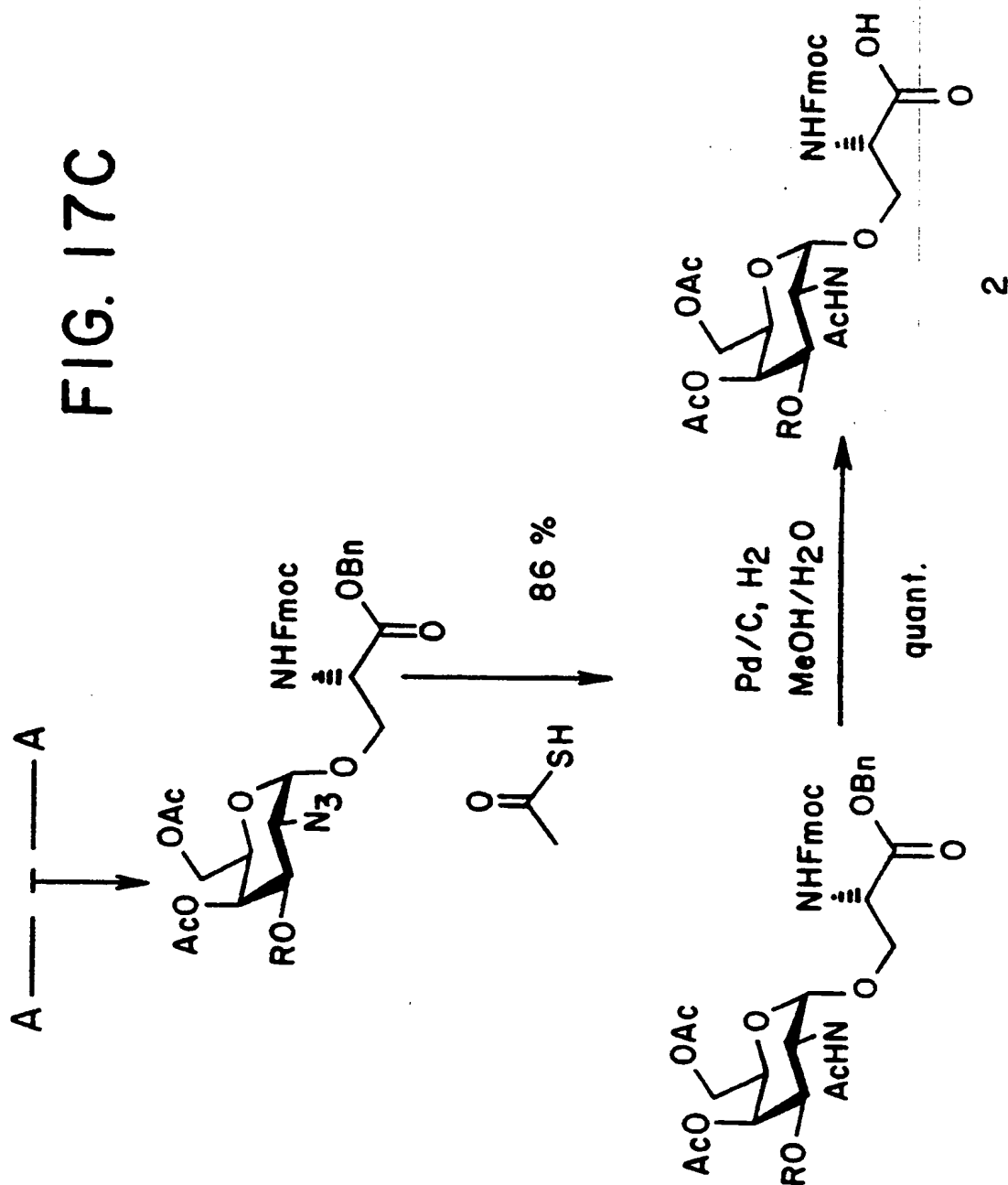


FIG. 17C

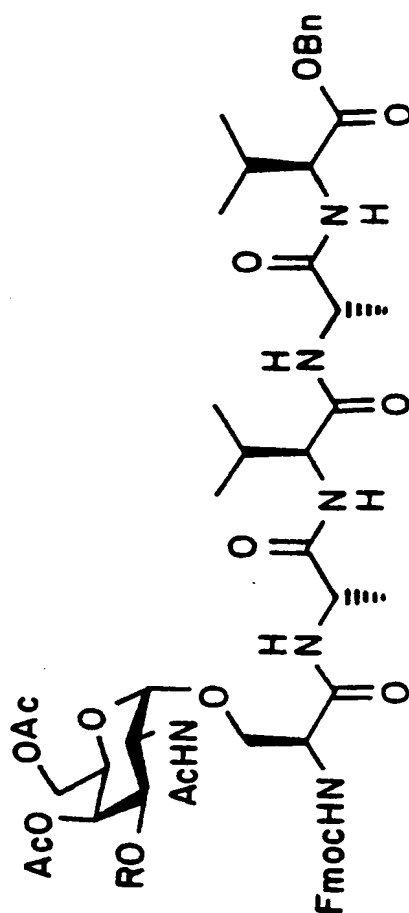






70 %

FIG. 18A



1) morpholine,  
DMF (78 %)

2) HATU, HOAT,  
collidine, DMF  
2 (77 %)

A ——— A

FIG. 18B

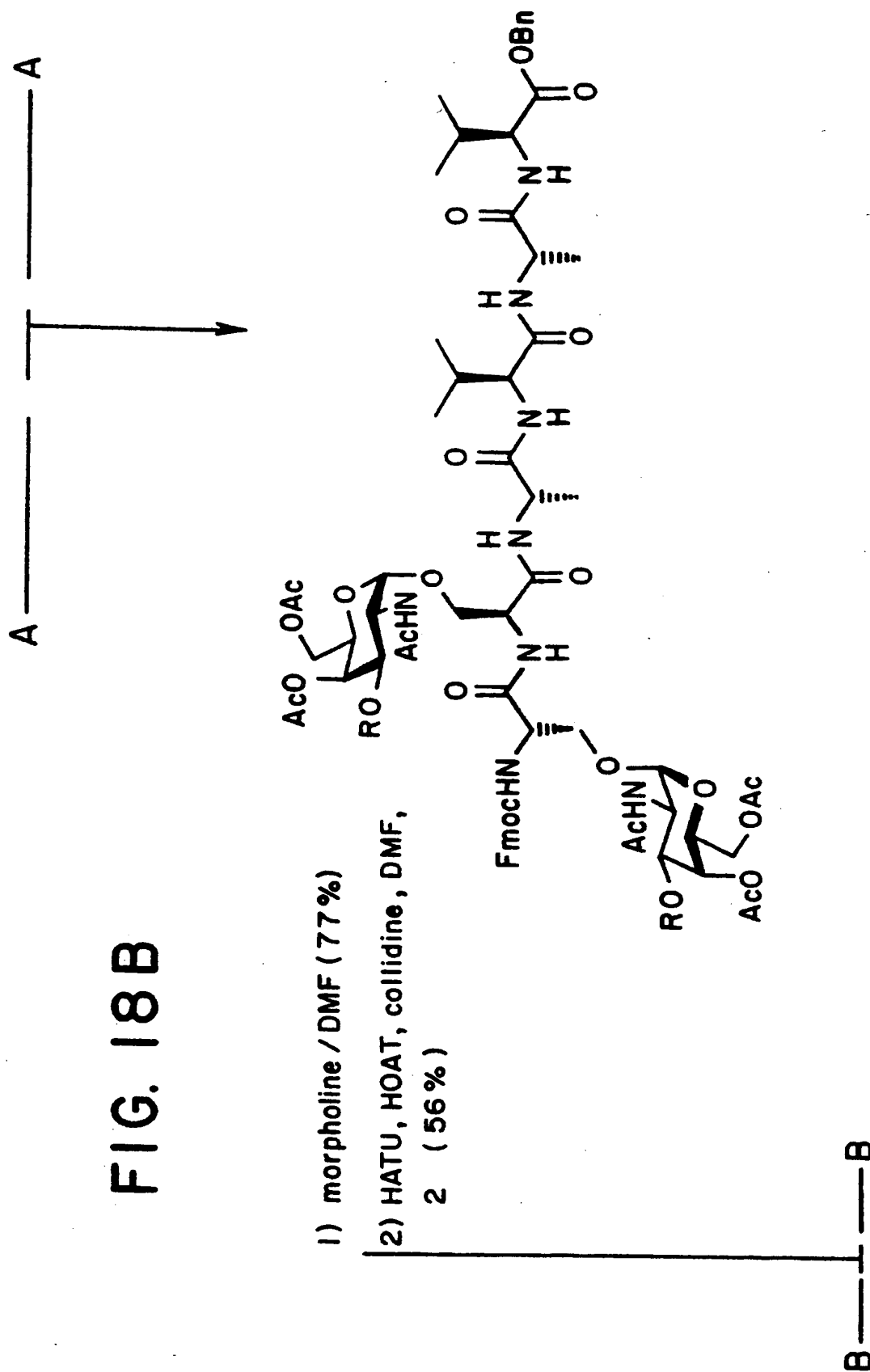


FIG. 18C

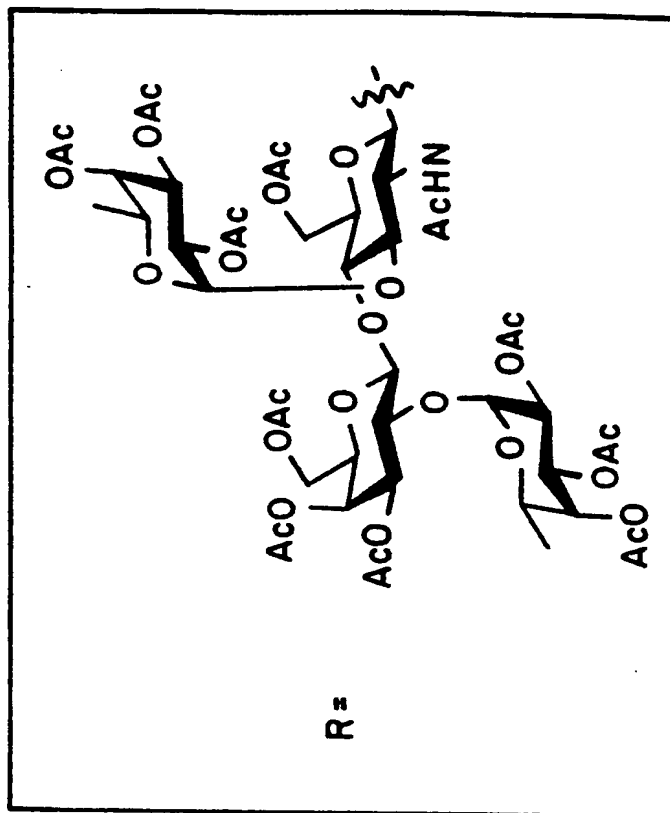
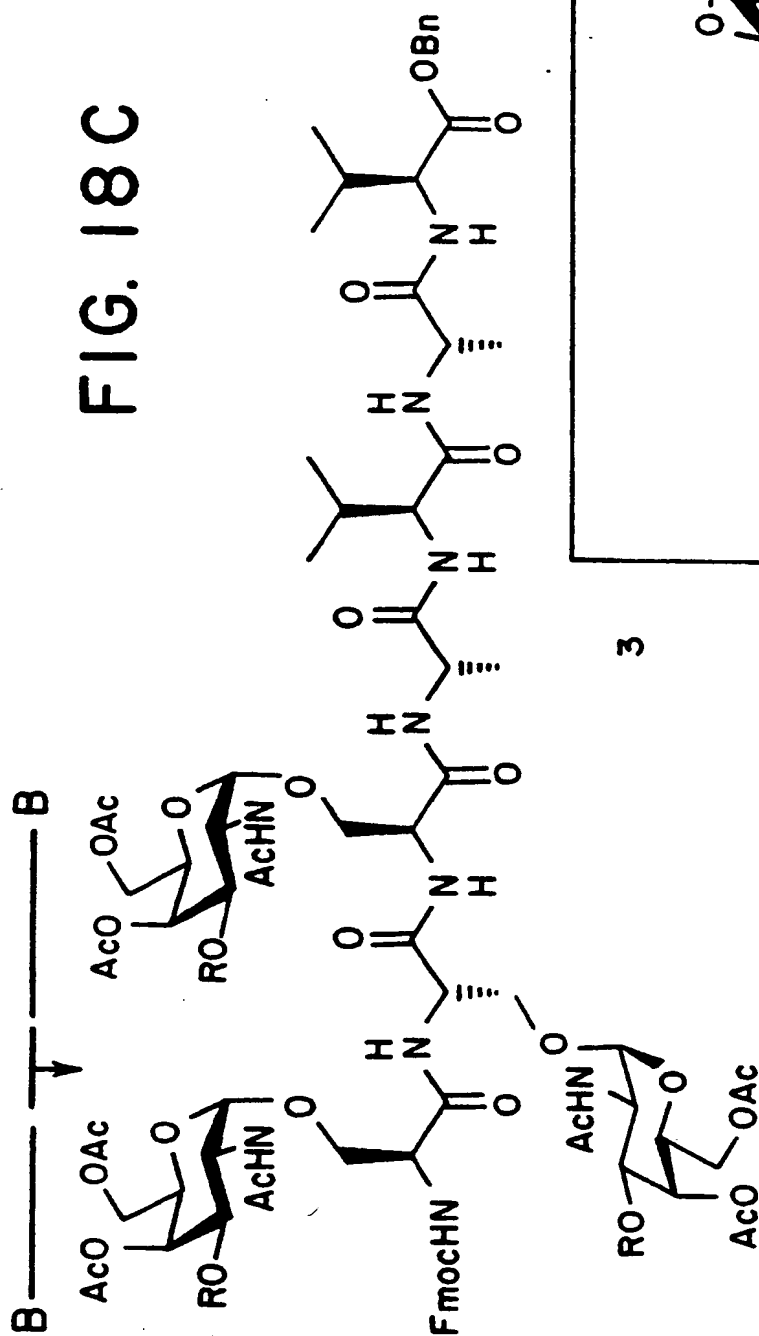
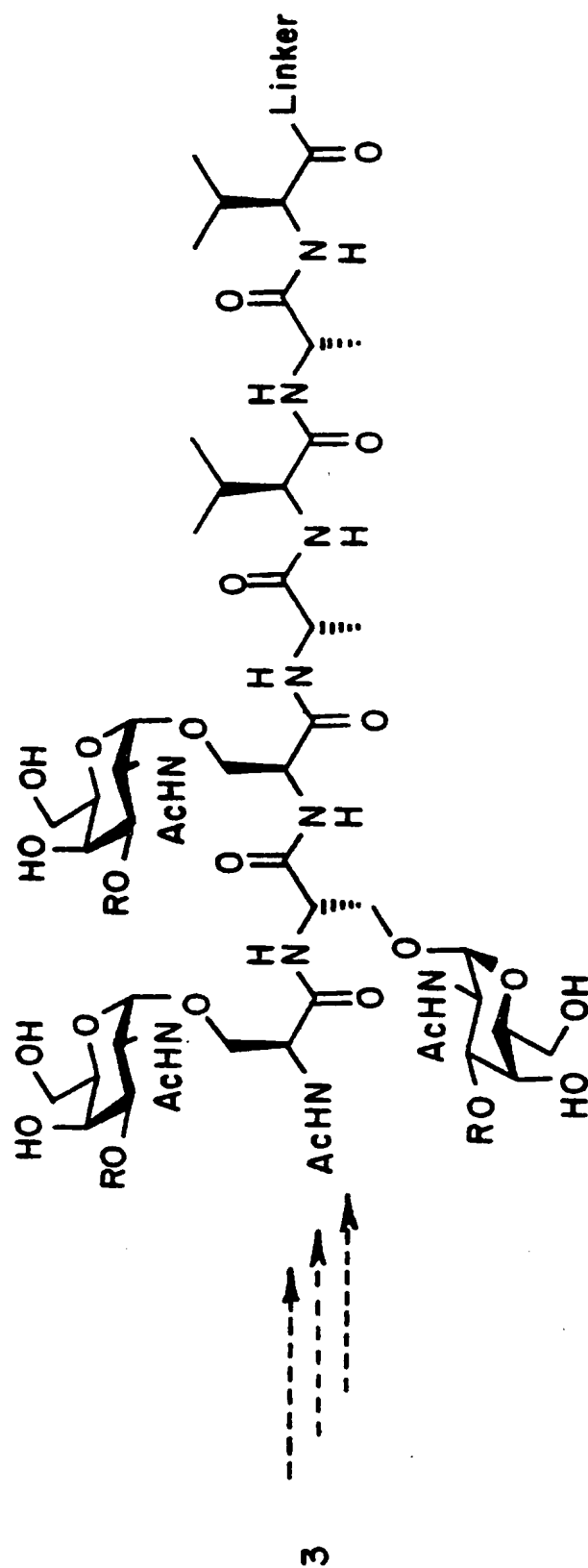


FIG. 19A



**FIG. 19B**

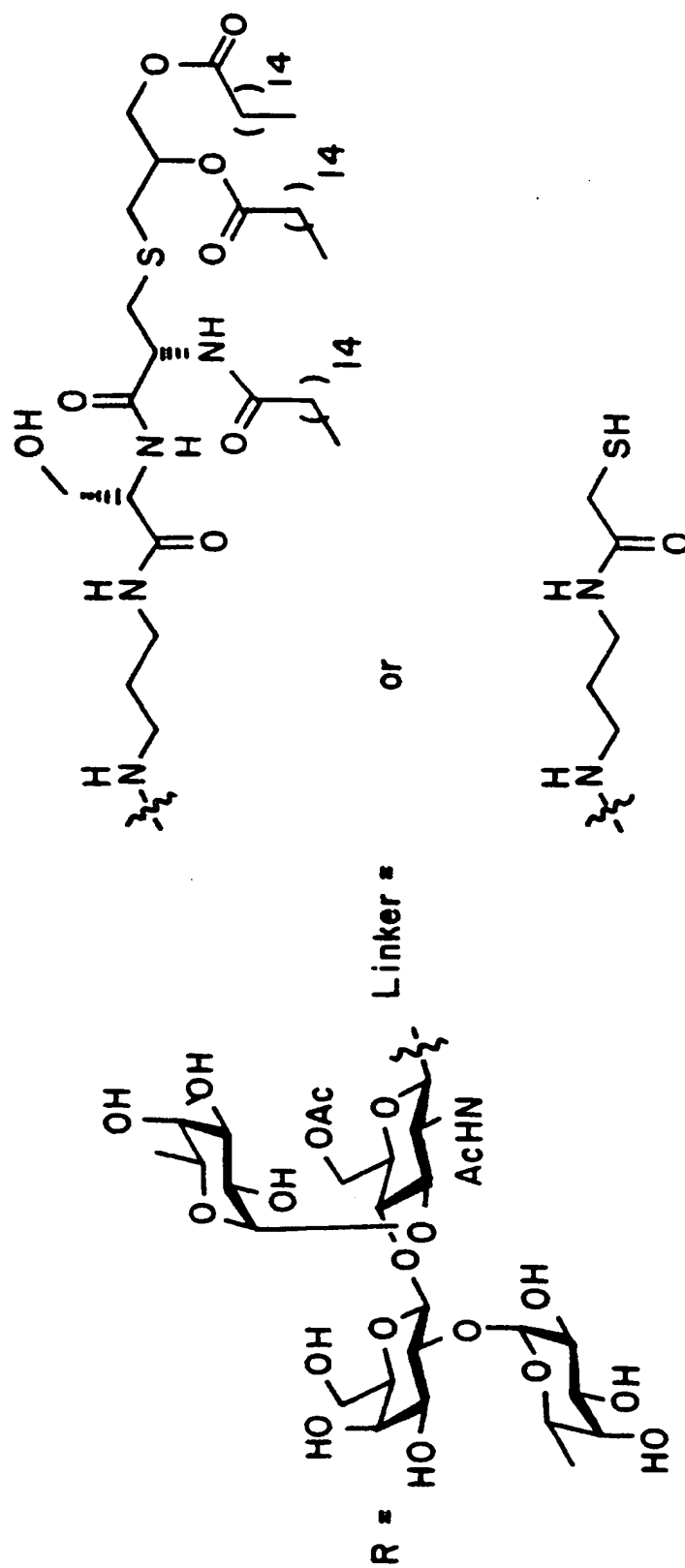


FIG. 20A

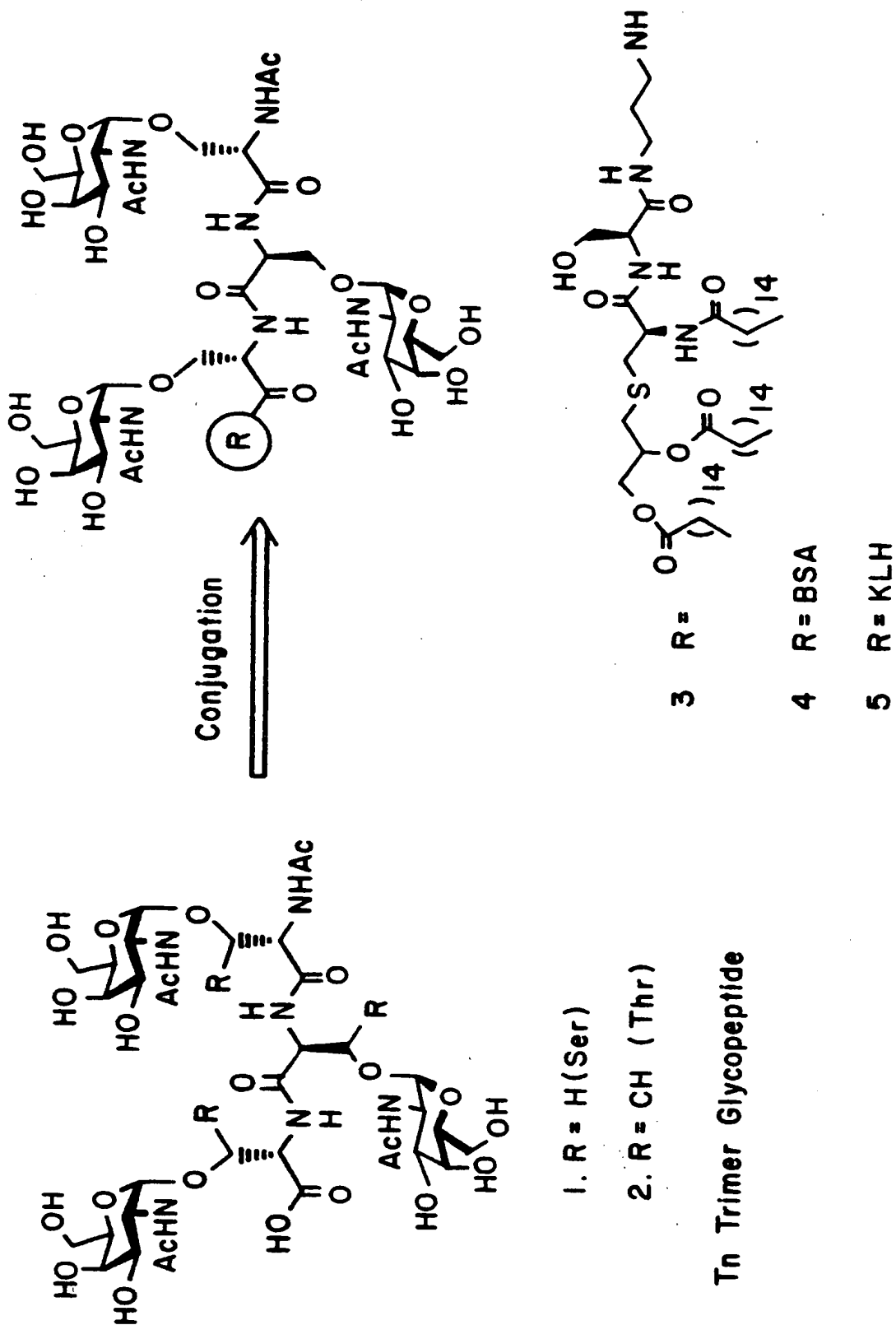


FIG. 20B

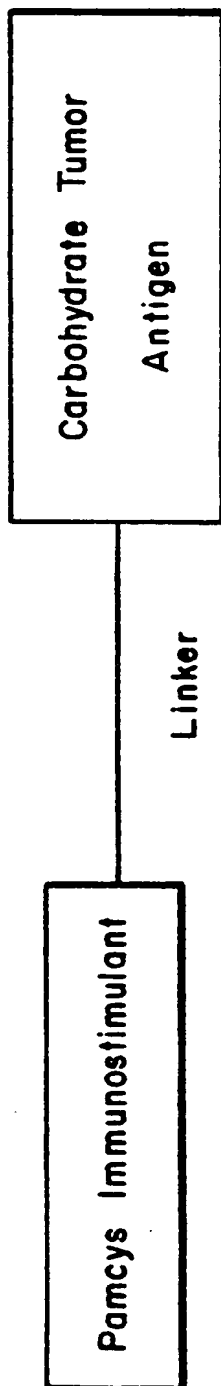
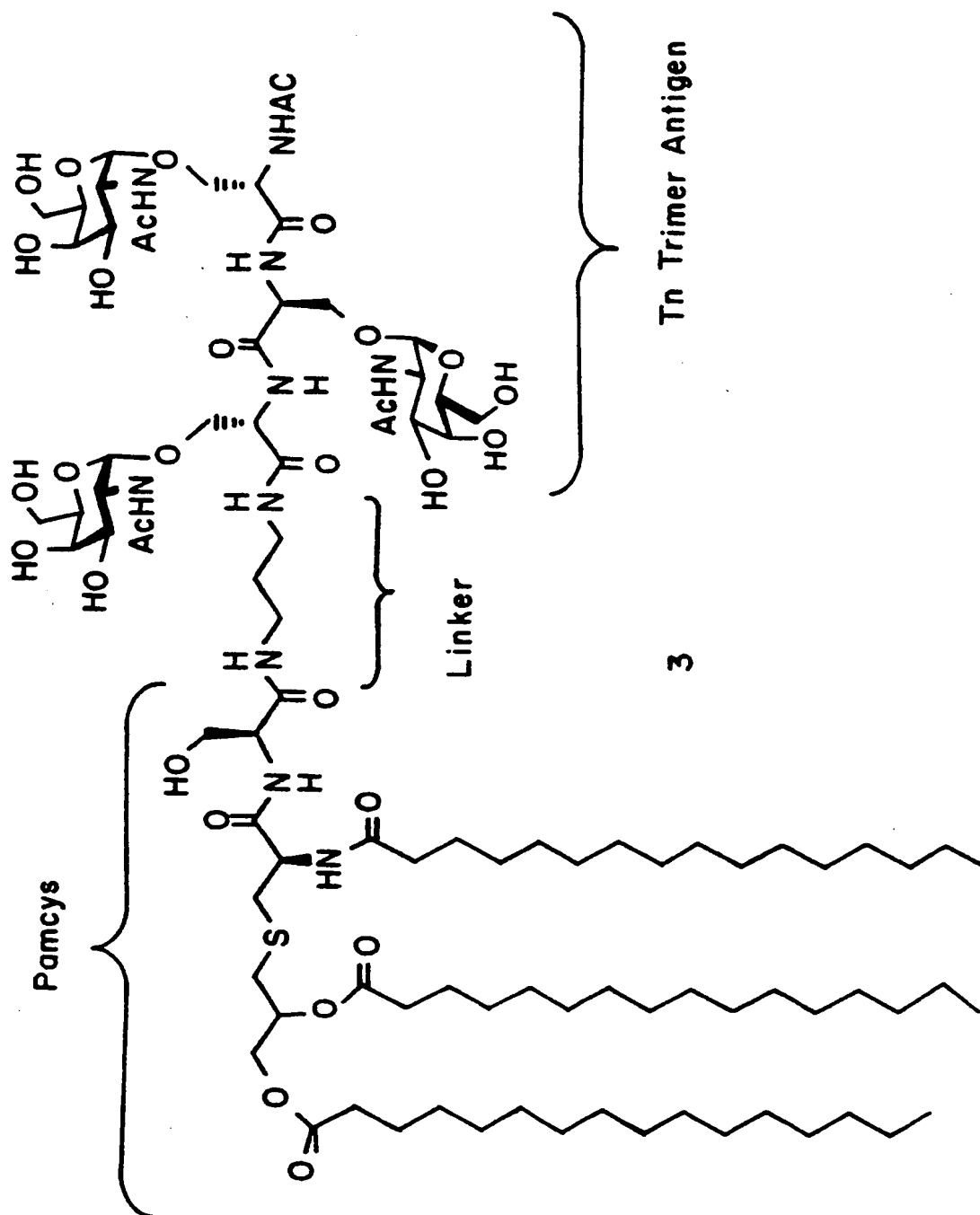


FIG. 20C





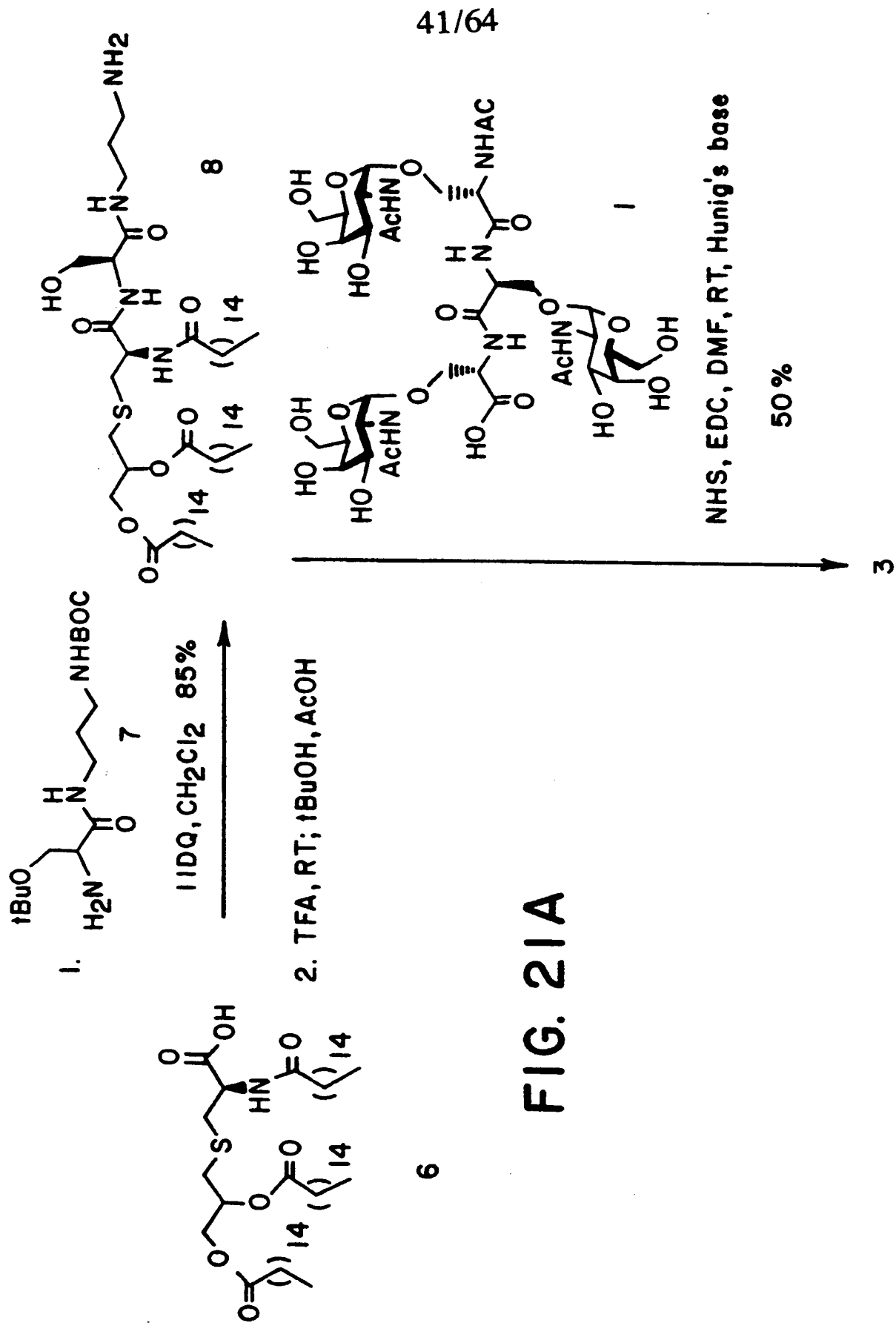


FIG. 21B

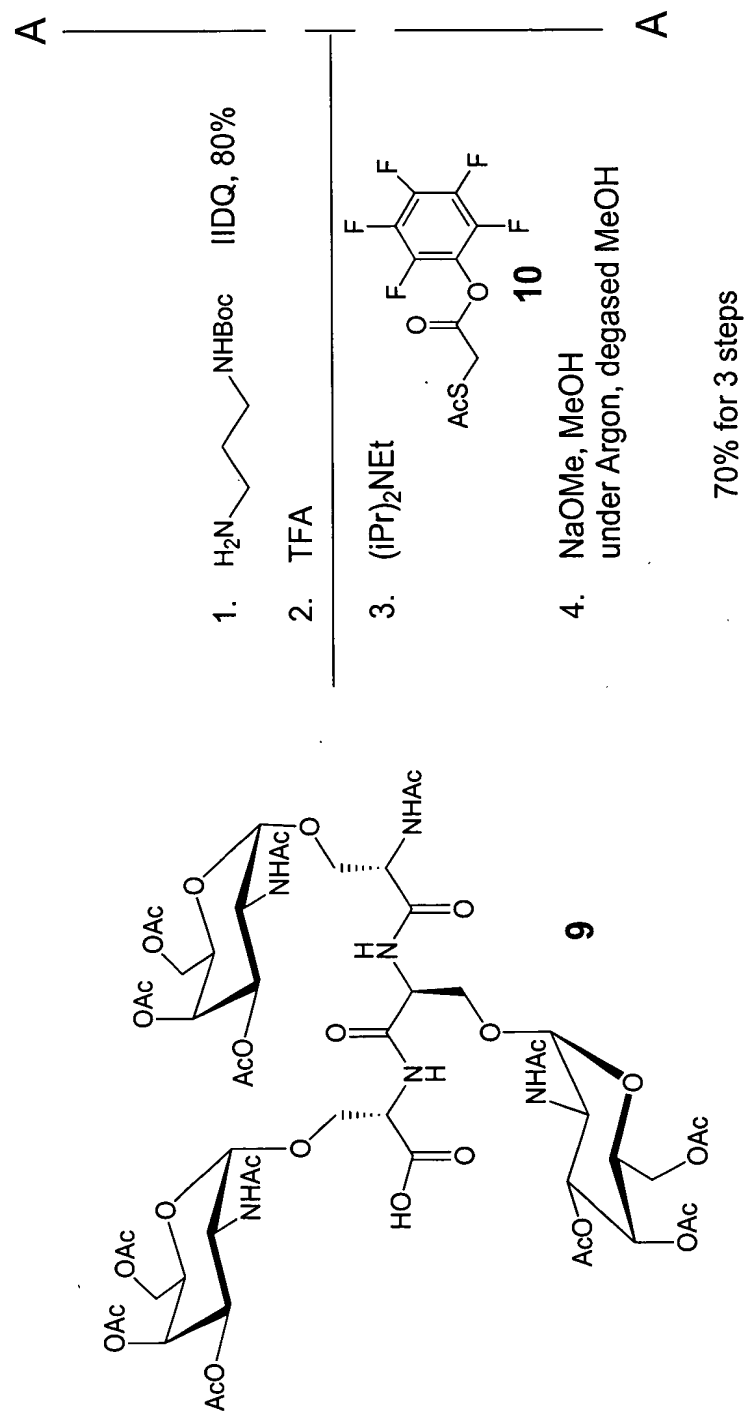


FIG. 21C

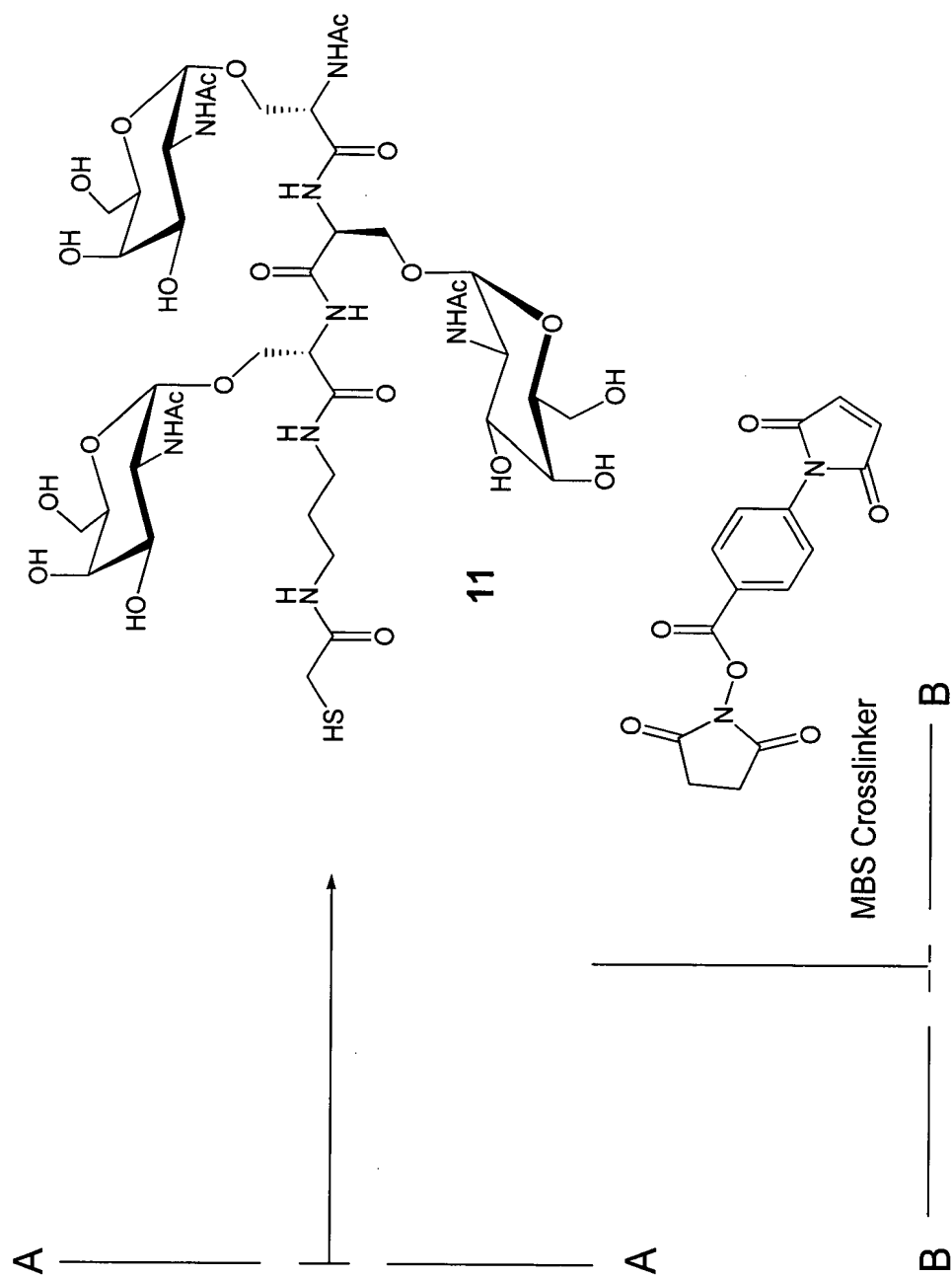
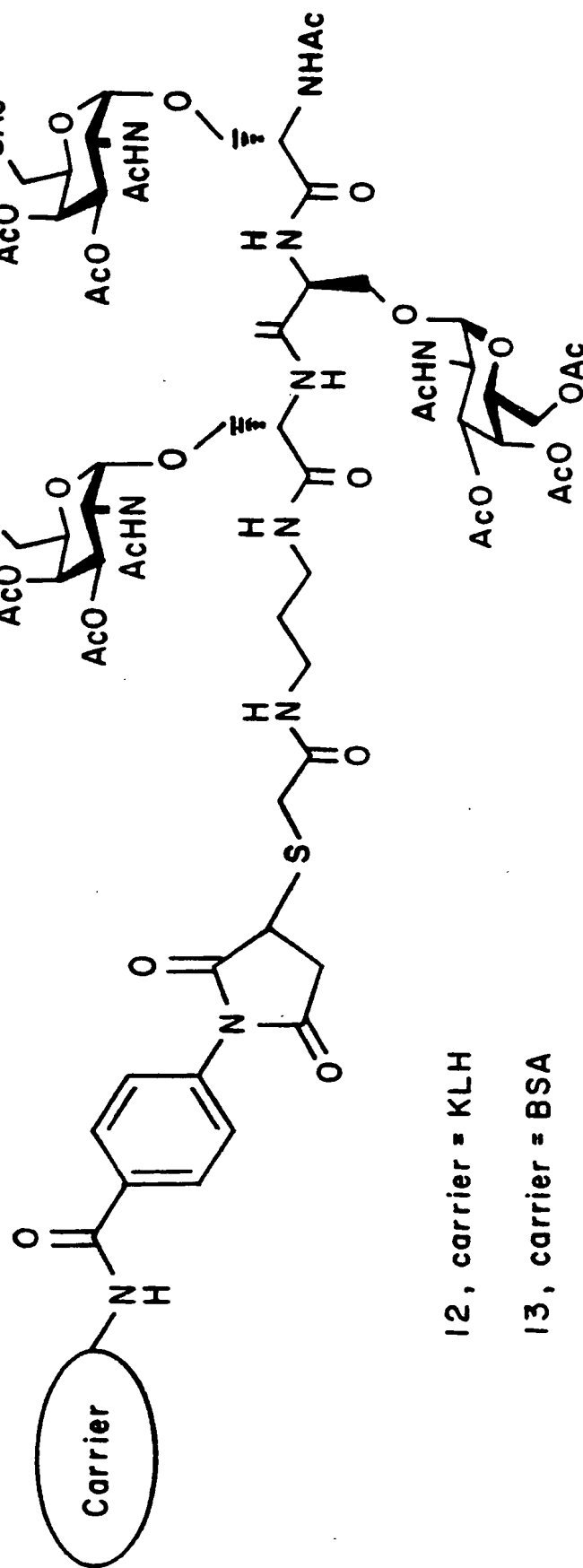
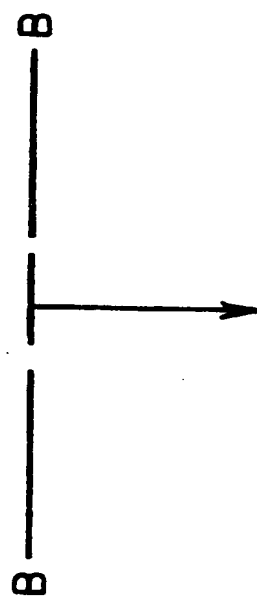


FIG. 21D



12, carrier = KLH

13, carrier = BSA

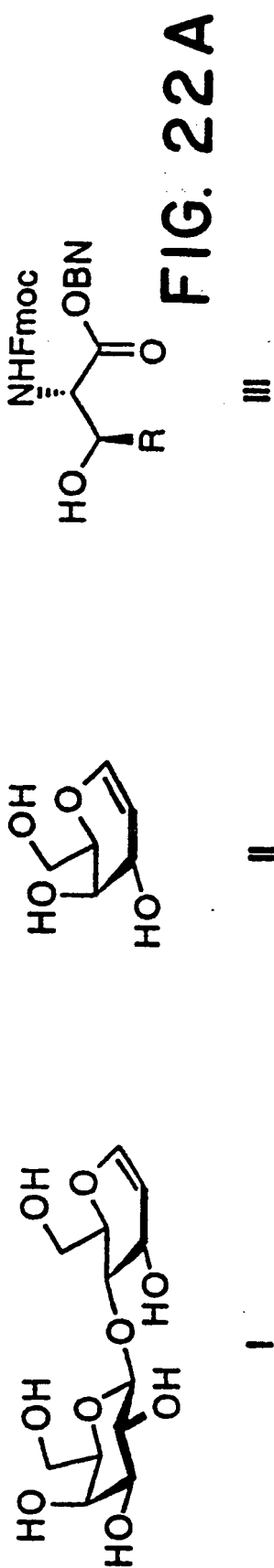


FIG. 22A

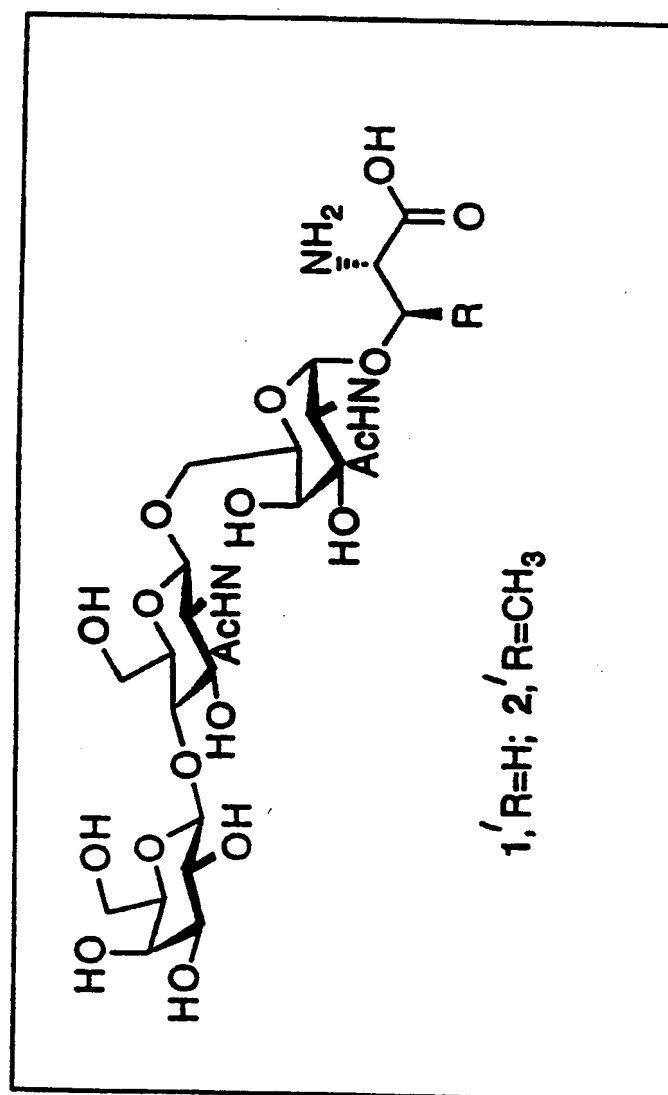
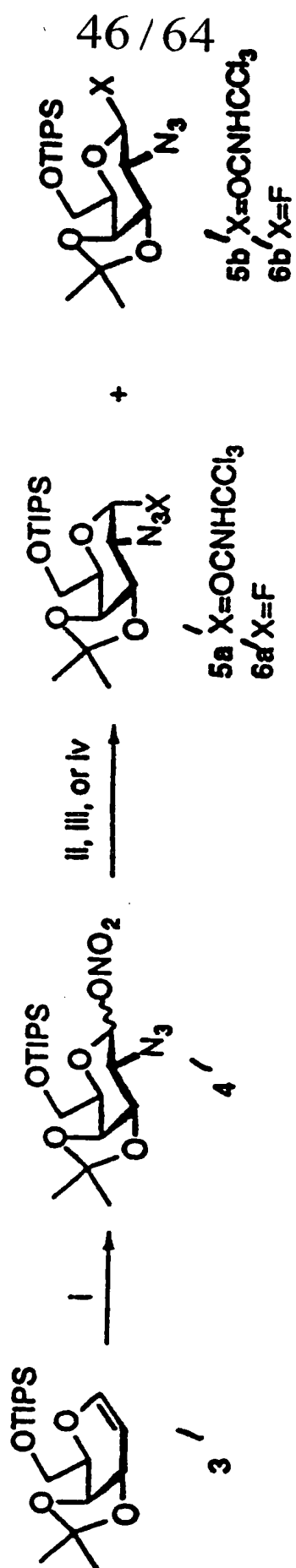


FIG. 22B



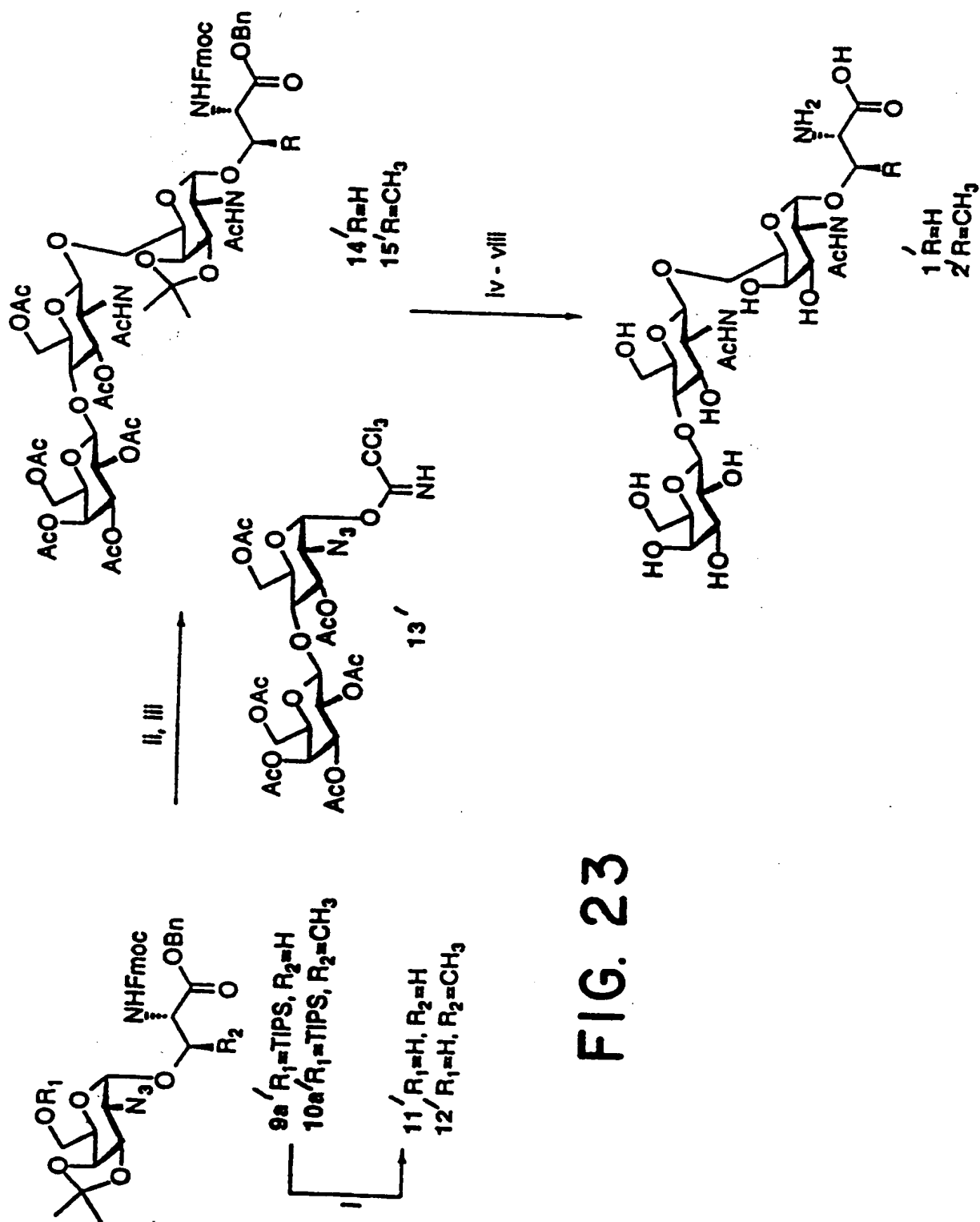


FIG. 23

FIG. 24

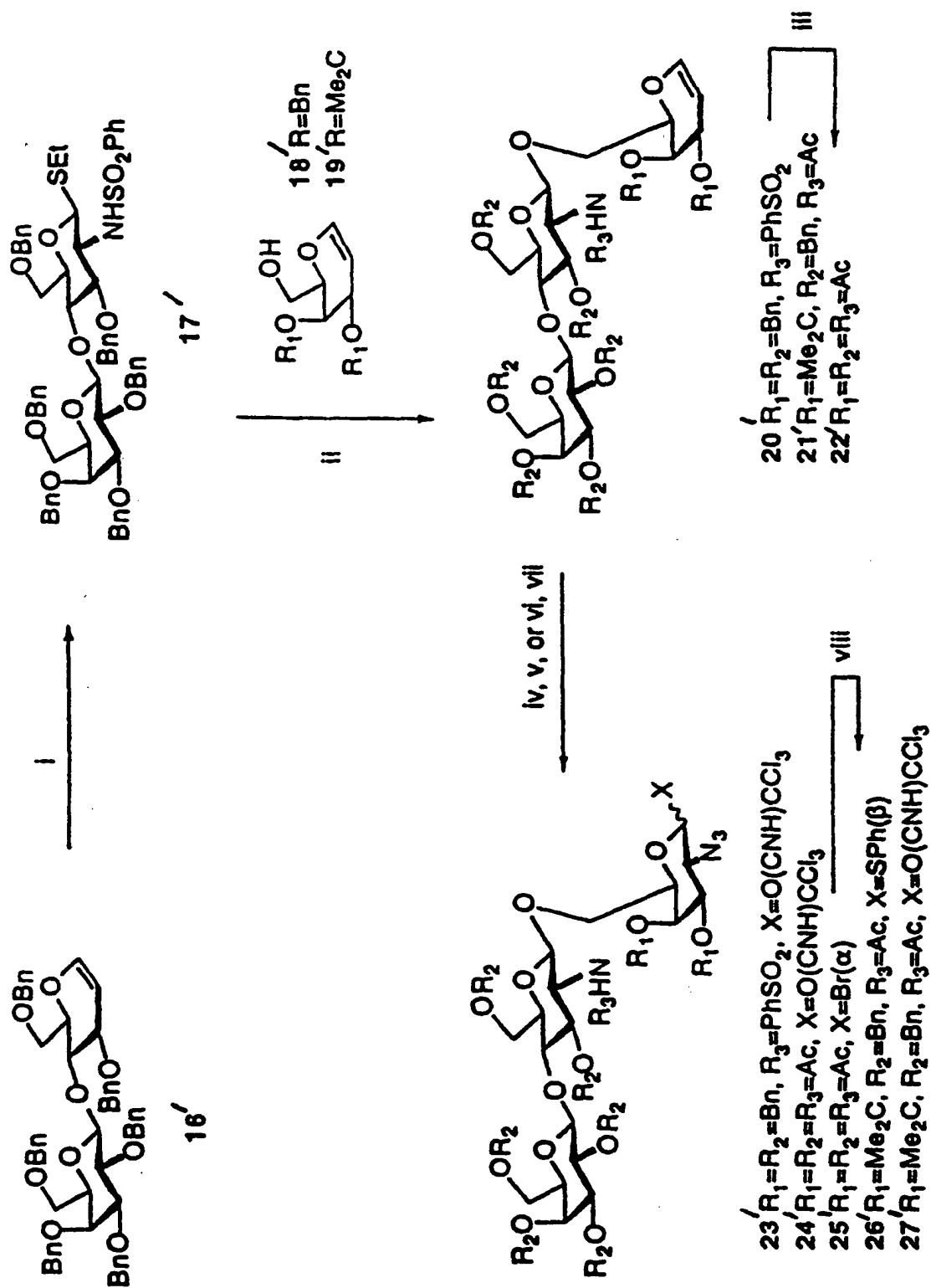
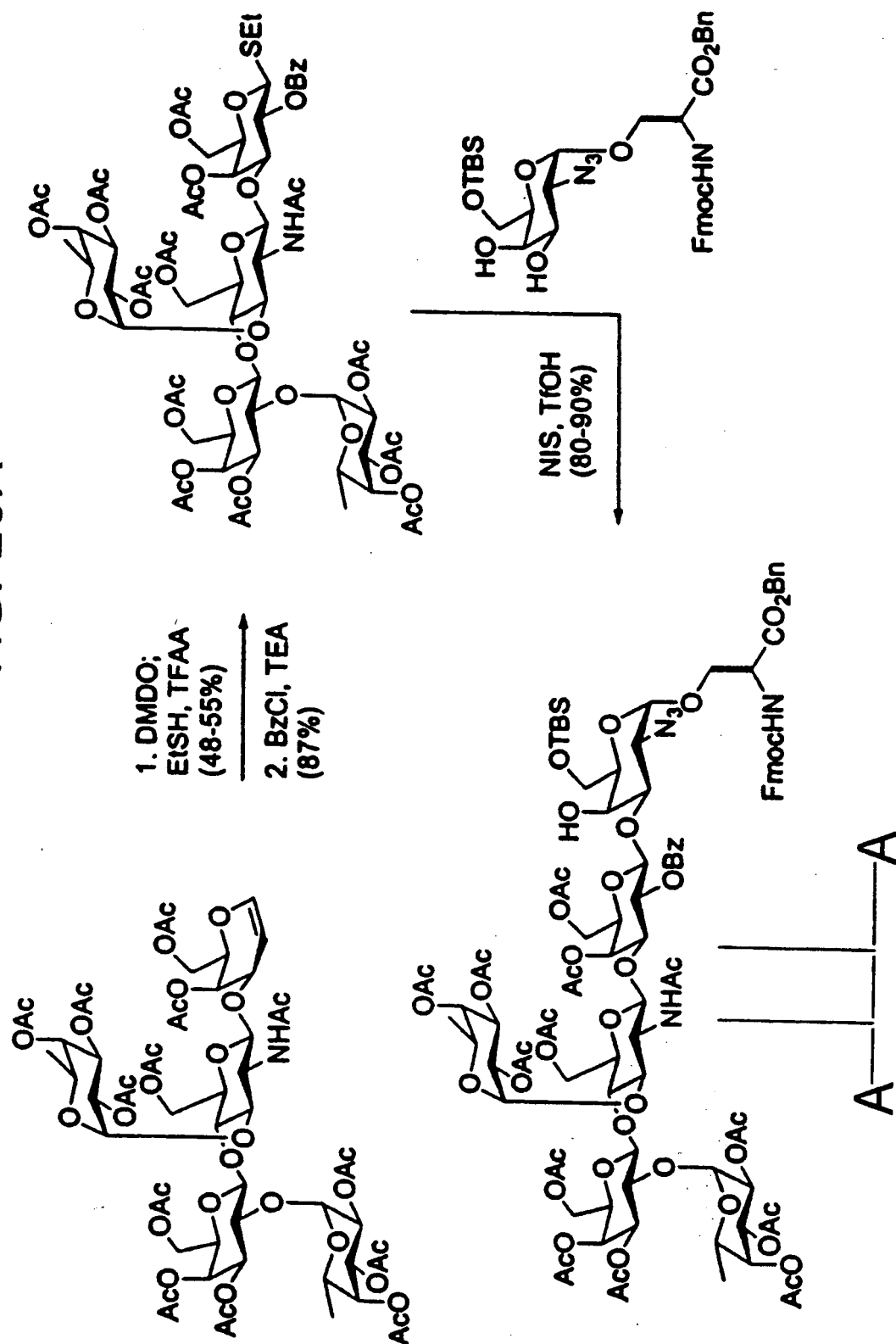




FIG. 25A



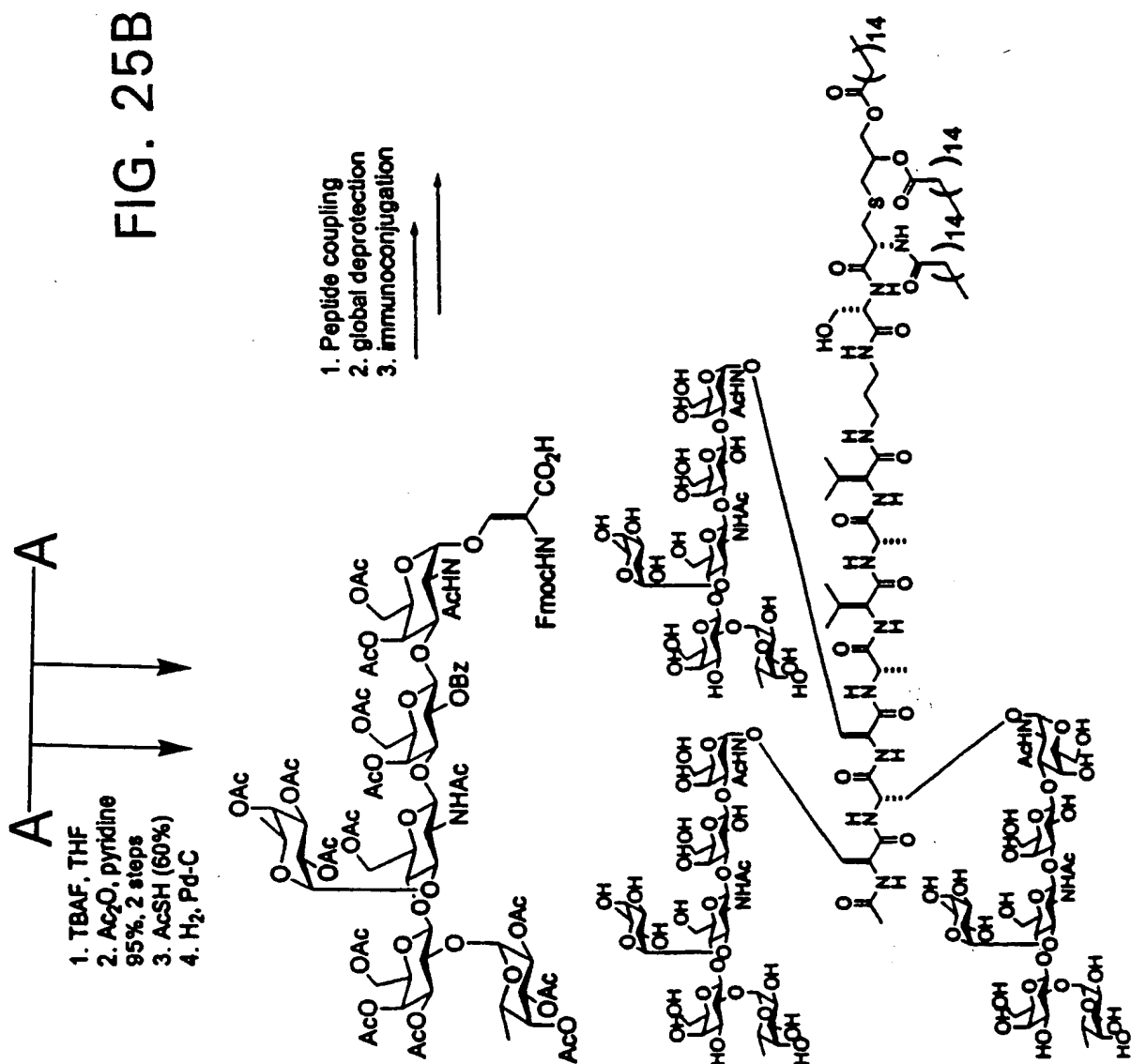
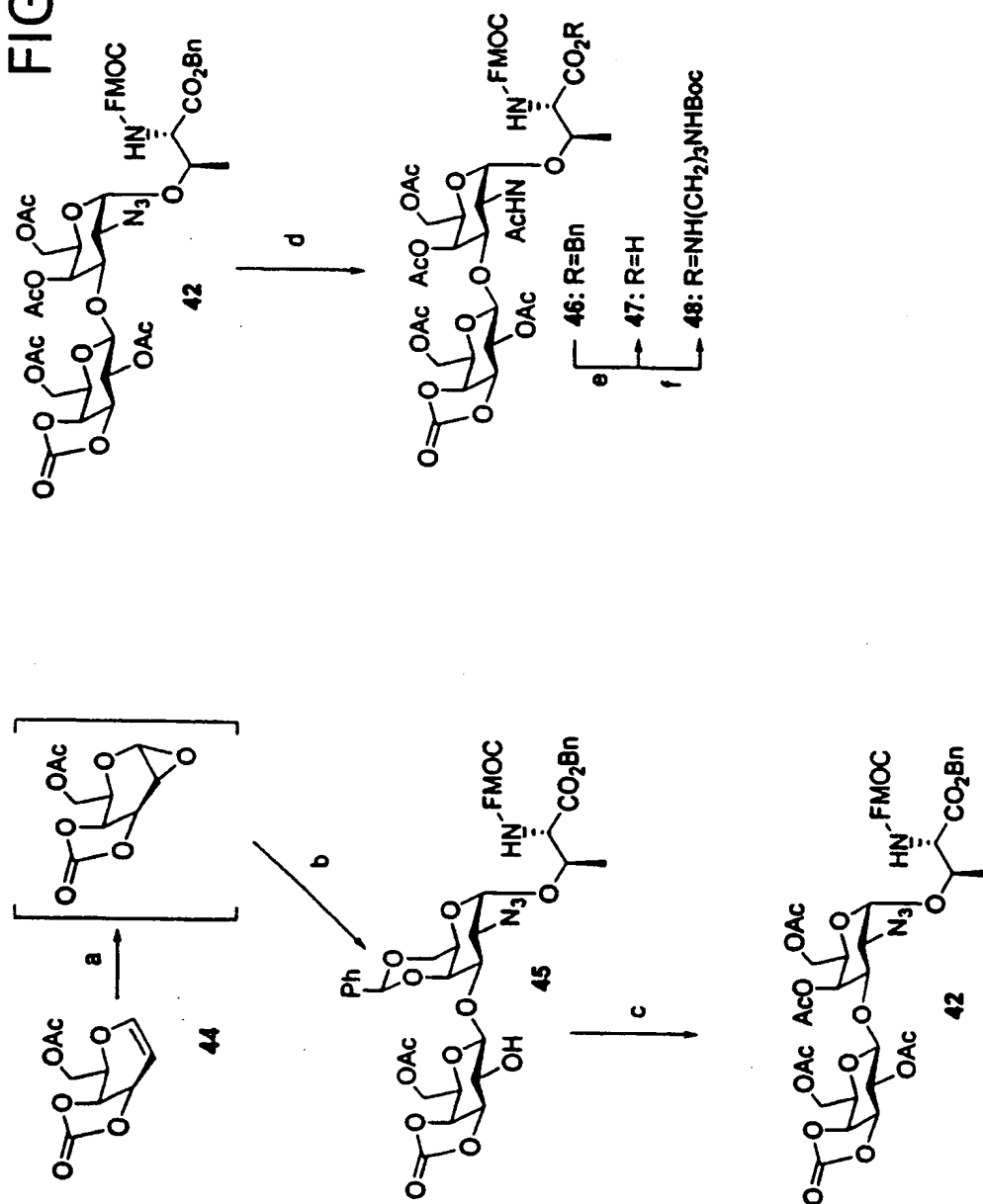


FIG. 26



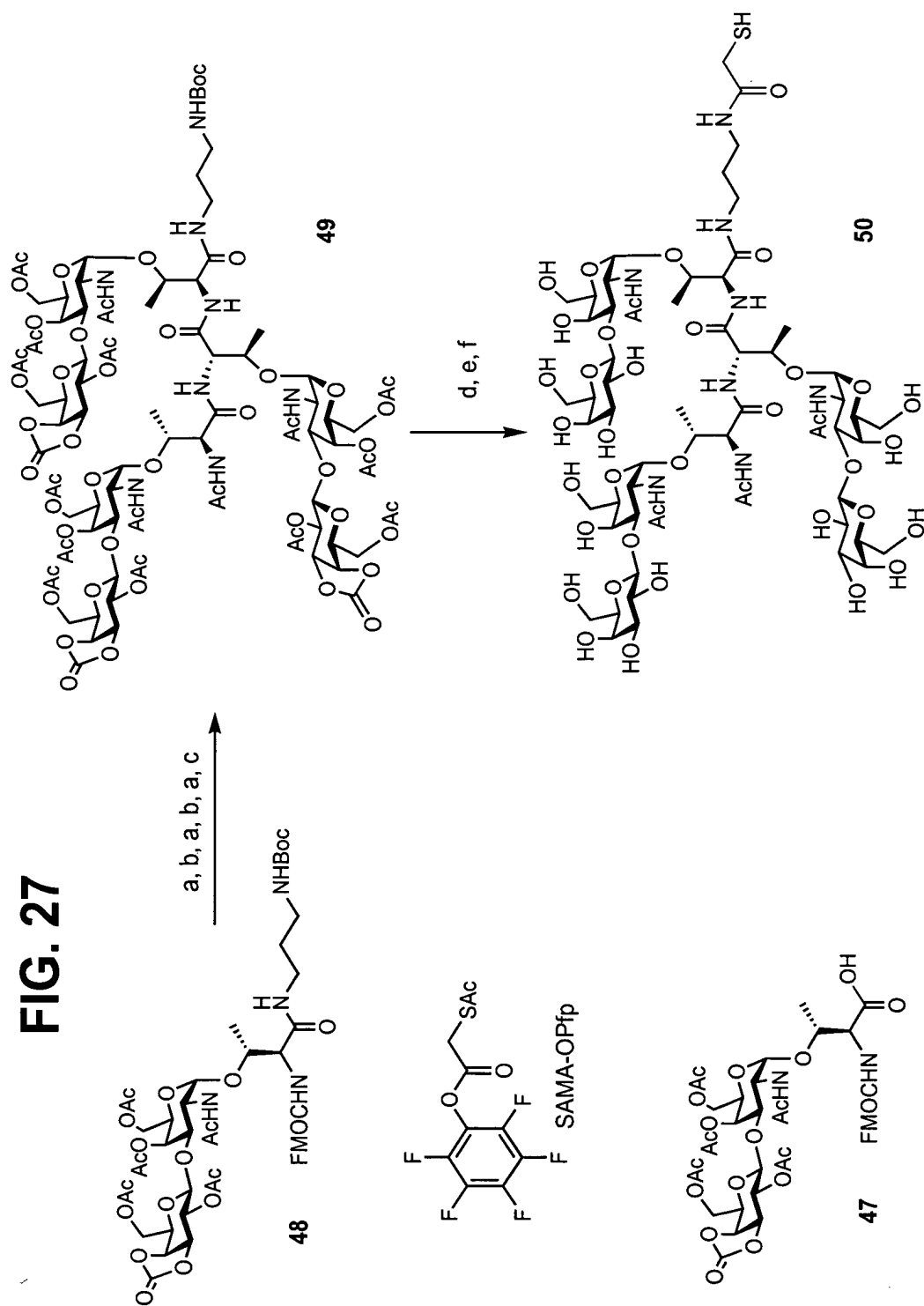
**FIG. 27**

FIG. 28A

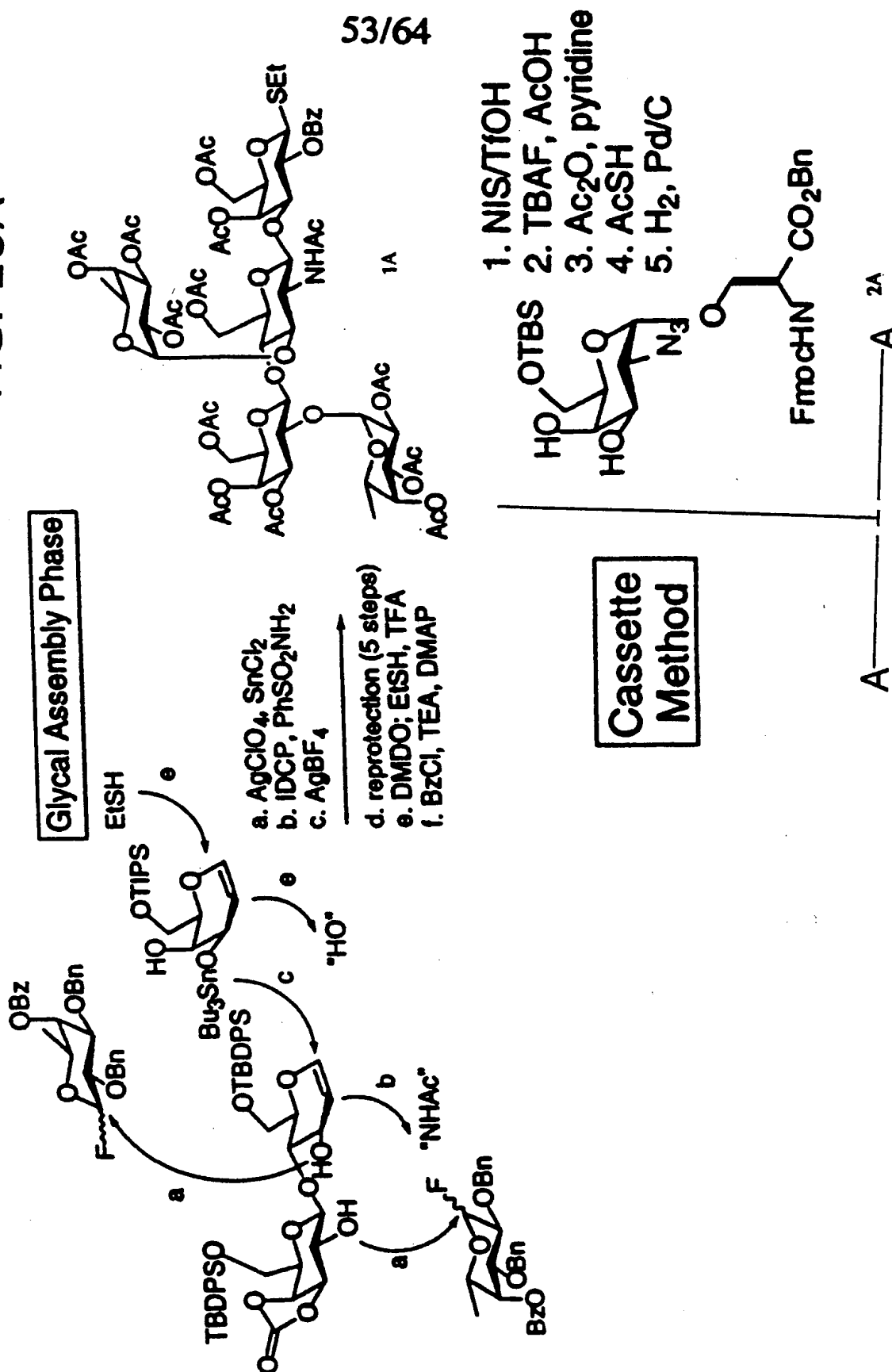


FIG. 28B

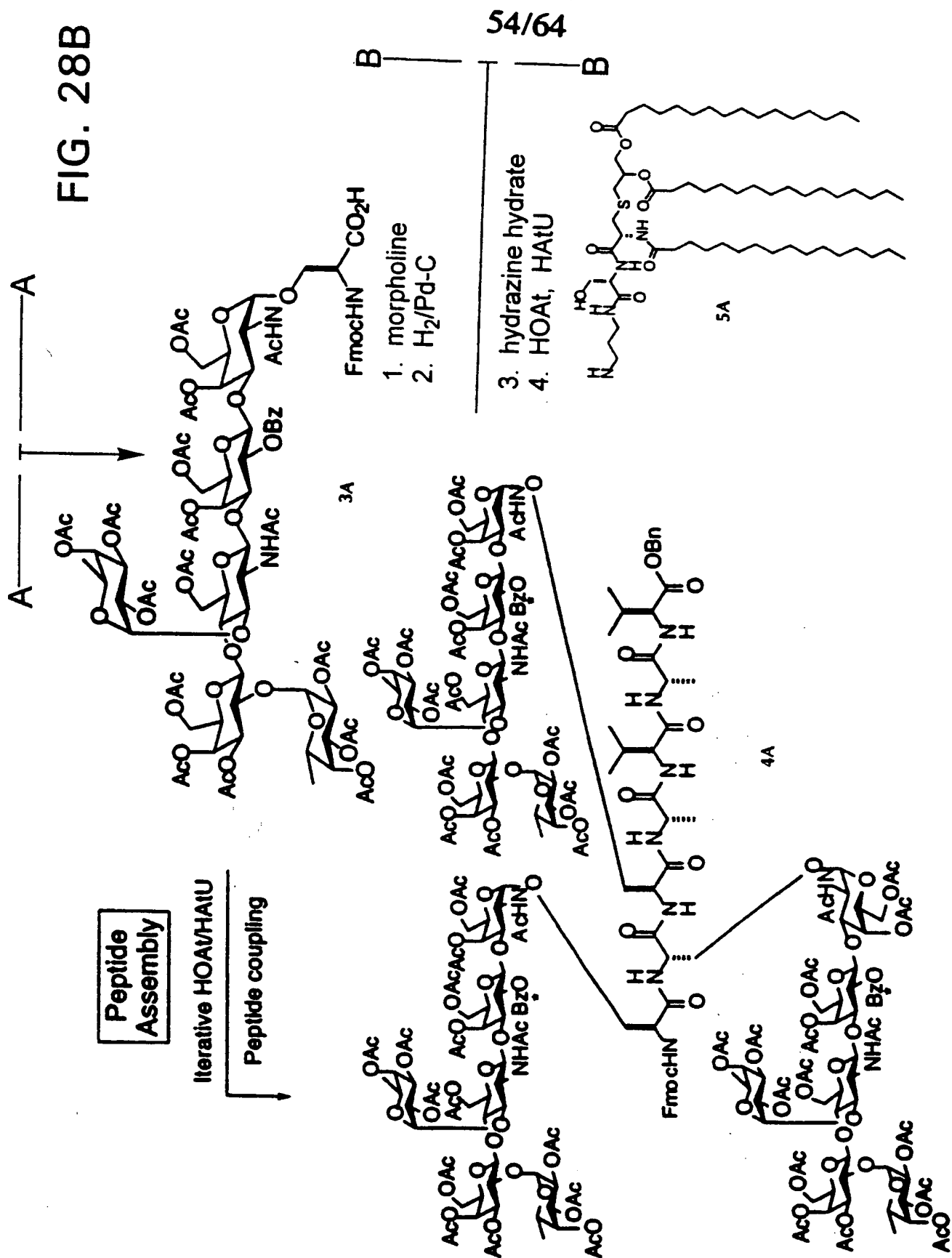


FIG. 28C

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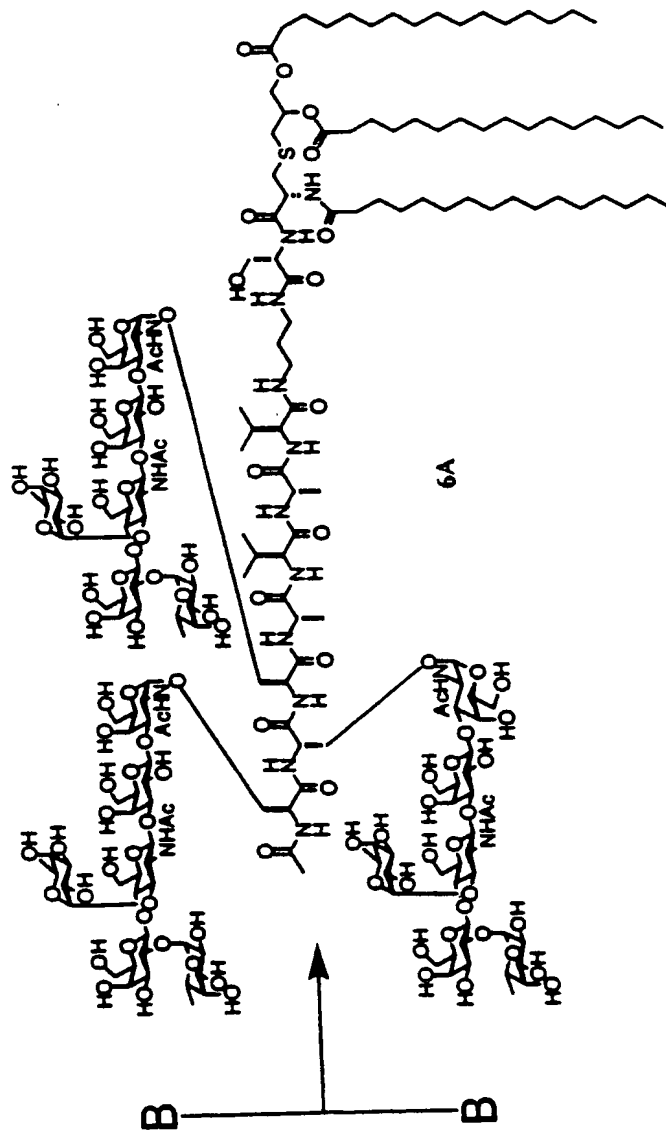


FIG. 29A

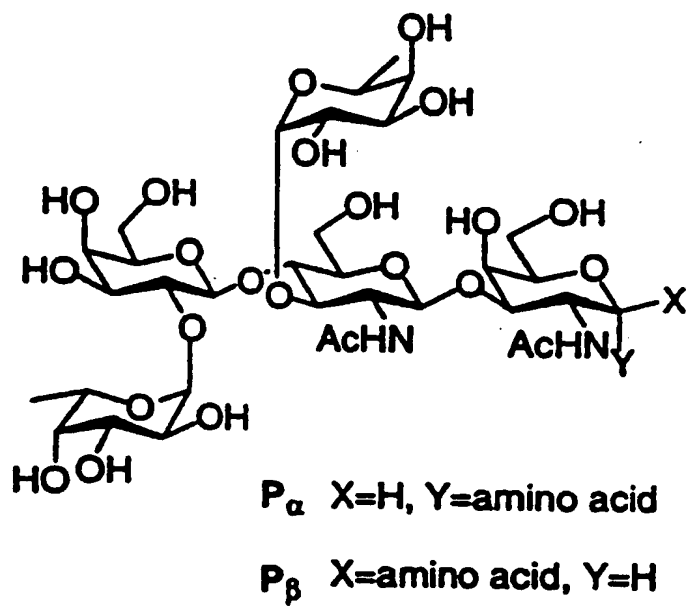




FIG. 29B

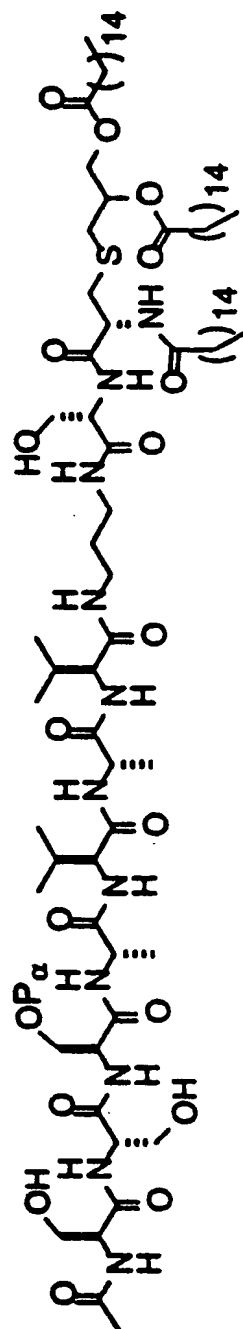
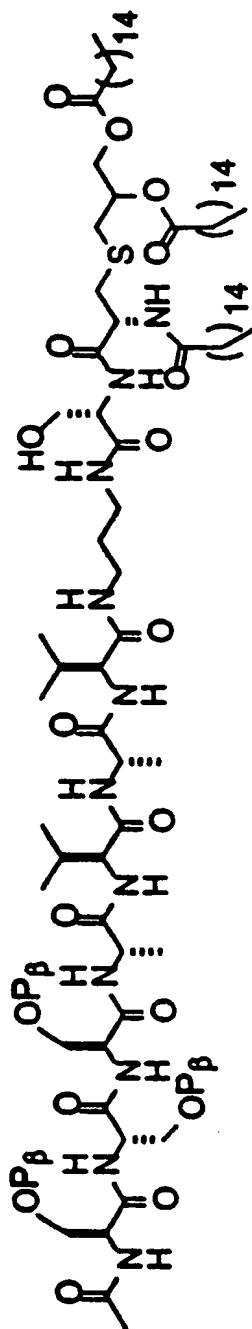
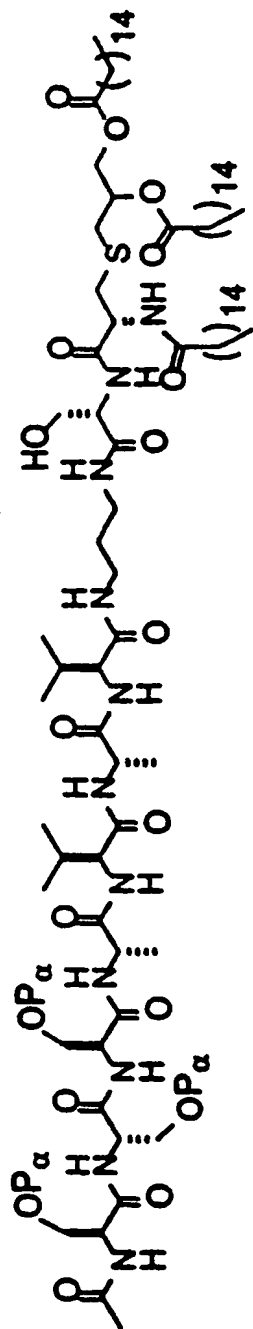
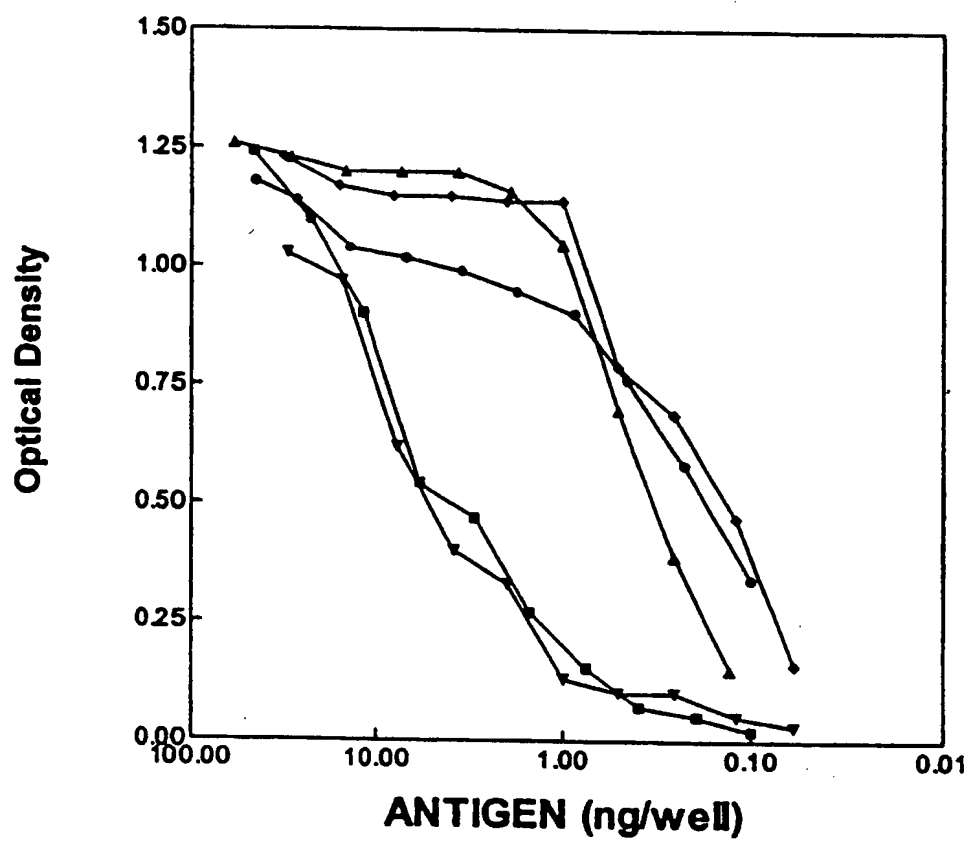
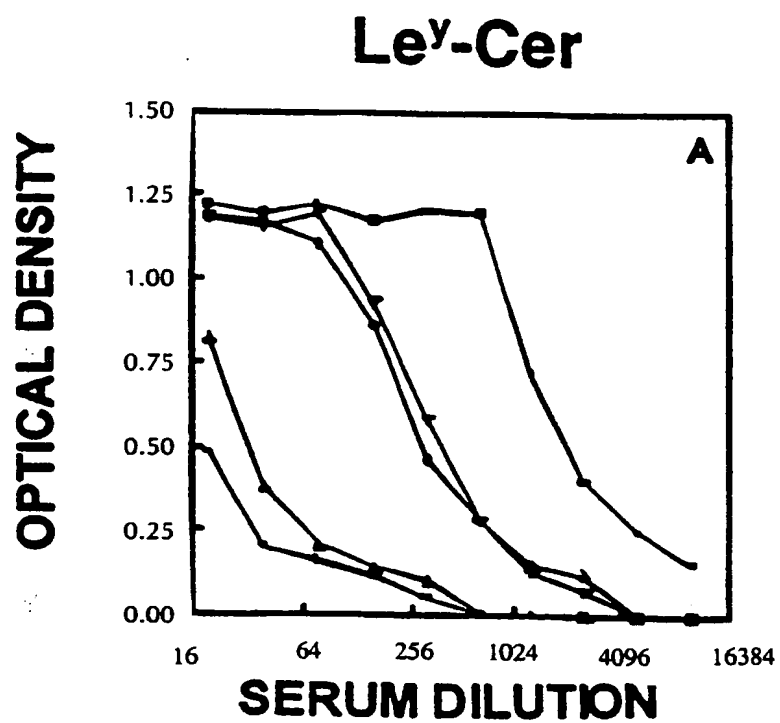


FIG. 30



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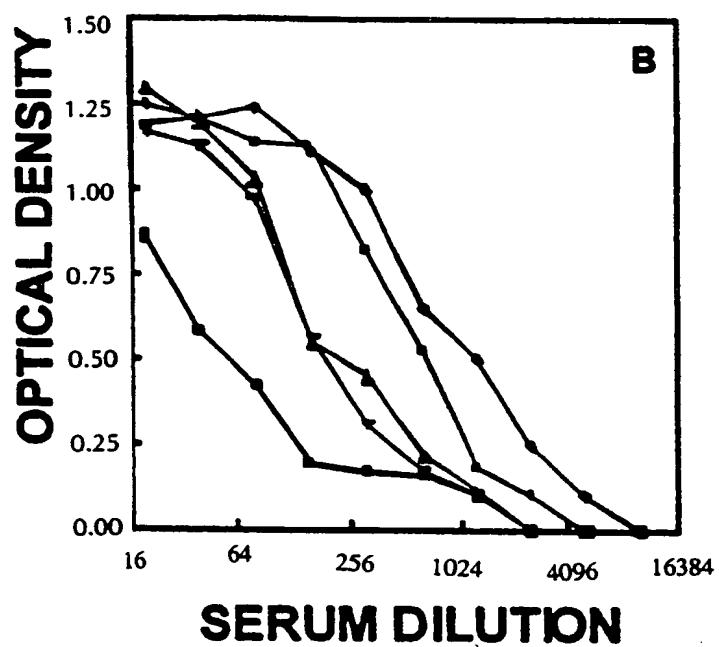
FIG. 31A



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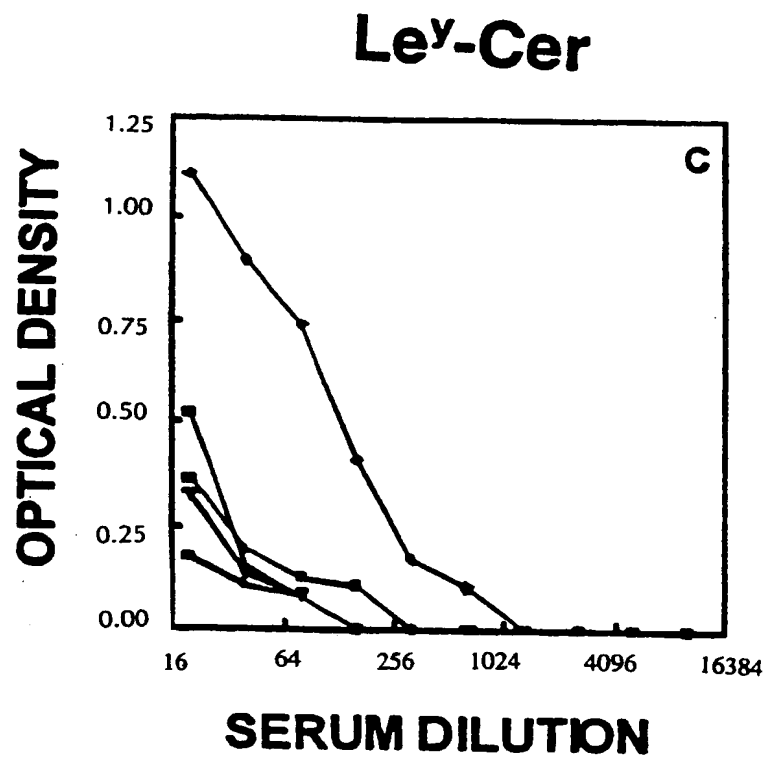
FIG. 31B

Le<sup>y</sup>-Cer



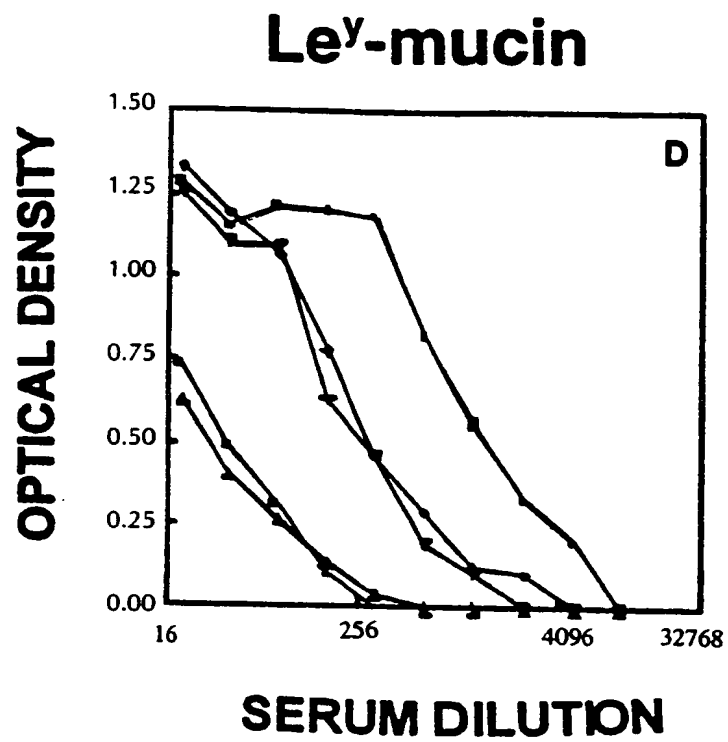
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FIG. 31C



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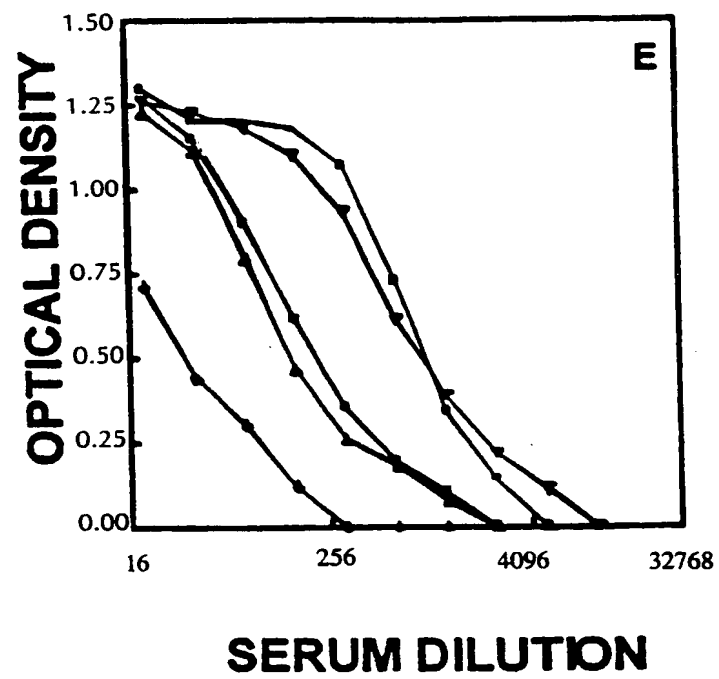
FIG. 31D



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FIG. 31E

**Le<sup>y</sup>-mucin**



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FIG. 31F

